FORESTRY

ECONOMIC & REGIONAL DEVELOPMENT AGREEMENT

Directory of Primary Wood-Using Industries in Manitoba - 1985

Canada

Manitoba

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DIRECTORY OF

PRIMARY WOOD-USING INDUSTRIES

IN MANITOBA, 1985

by

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CANADIAN FORESTRY SERVICE

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Natural Resources

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ABSTRACT

The forest industry in Manitoba was surveyed in the fall of 1985 and spring of 1986 by personal interviews with owners/managers of each operation. This directory gives a summary, for each operation, of mill location, ownership, capacity, production, employment, wood supply, products, markets, equipment, and factors limiting present operation and expansion. Sawmills, planing mills and wood treating plants, other miscellaneous wood-using industries and pulp, paper and fiberboard mills are grouped by industry type, size of operation, and forest region.

SUMMARY OF MANITOBA'S PRIMARY WOOD-USING INDUSTRIES IN 1985, NUMBER OF FIRMS, AND ANNUAL PRODUCTION AND EMPLOYMENT (IN IMPERIAL UNITS)

Industry	Number of firms	Production	Employment in mills and woodlands (person-years)[1]
Sawmill-planing complexes producing more than 5 MM fbm	5	78.5 MM fbm 25.0 M cords roundwood[2] 72.0 M BDU chips	584
Sawmill-planing complexes producing 1 MM to 4.999 MM fbm	11	19.7 MM fbm 20.2 M cords roundwood	155
Sawmill-planing complexes producing 100 M to 999 M fbm	35	14.4 MM fbm 42.3 M cords roundwood 5.0 M ft^3 posts & rails	199
Sawmill-planing complexes producing less than 100 M fbm	102	3.3 MM fbm	17[3]
Independent planing mills	5	38.5 MM fbm[4]	75
Wood treating plants	2	4.9 MM fbm treated lumber 594 M ft^3 treated stock	38
Pulp, paper, and fiberboard mills	4	181.0 M tons newsprint 128.4 M tons pulp & paper 21.7 MM ft^2 insulation board (1/2 inch basis)	1560
Miscellaneous wood-using industries	12	840.0 M fbm 222.0 M ft^3 posts & poles 36.0 M cords roundwood 3.6 M BDU wood chips 3.1 M units hog fuel	76
Log producers: unaccounted woodlands labor estimates for purchased wood & custom sawn wood	N.A.	N.A.	144
Total	176		2848

1) person-years rounded to agree with original data totals
2) roundwood includes sawlogs, pulpwood and firewood
3) no personal interviews with this sawmill group; production and employment estimated from provincial forestry records
4) includes rough lumber produced by the sawmill industry

SUMMARY OF MANITOBA'S PRIMARY WOOD-USING INDUSTRIES IN 1985, NUMBER OF FIRMS, AND ANNUAL PRODUCTION AND EMPLOYMENT (IN METRIC UNITS)

Industry	Number of firms	Production	Employment in mills and woodlands (person-years)[1]
Sawmill-planing complexes producing more than 5 MM fbm	5	444.3 M m^3 62.5 M m^3 roundwood[2] 78.5 M tonnes wood chips	584
Sawmill-planing complexes producing 1 MM to 4.999 MM fbm	11	111.5 M m^3 50.6 M m^3 roundwood	155
Sawmill-planing complexes producing 100 M to 999 M fbm	35	81.5 M m^3 105.7 M m^3 roundwood 140 m^3 posts & rails	199
Sawmill-planing complexes producing less than 100 M fbm	102	18.7 M m^3	17[3]
Independent planing mills	5	217.9 M m^3 [4]	75
Wood treating plants	2	27.7 M m^3 treated lumber 16.8 M m^3 treated stock	38
Pulp, paper, and fiberboard mills	4	165.0 M tonnes newsprint 116.5 M tonnes pulp & paper 25.6 MM m^2 insulation board (1 mm basis)	1560
Miscellaneous wood-using industries	12	4.8 M m^3 6.3 M m^3 posts & poles 90.0 M m^3 roundwood 3.9 M tonnes wood chips 17.5 M m^3 hog fuel	76
Log producers: unaccounted woodlands labor estimates for purchased wood & custom sawn wood	N.A.	N.A.	144
Total	176		2848

1) person-years rounded to agree with original data totals
2) roundwood includes sawlogs, pulpwood and firewood
3) no personal interviews with this sawmill group; production and employment estimated from provincial forestry records
4) includes rough lumber produced by the sawmill industry

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INTRODUCTION

This directory lists the primary wood-using industries in Manitoba during 1985. It documents the improvements in Manitoba's forest industry since the previous directory was compiled in 1980 and provides data on sawmill-planing complexes, independent planing mills, wood treating plants, and miscellaneous wood-using industries, as well as pulp, paper, and fiberboard mills.

Each operation is briefly described in terms of its location, ownership, capacity, production, employment, wood supply, markets, and equipment. The factors limiting present operations and future expansion potential are also discussed.

The directory is divided into eight major sections: Sawmill-planing complexes producing more than 5 MM fbm (foot board measure); sawmill-planing complexes, 1 MM to 4.999 MM fbm; sawmill-planing complexes, 100 M fbm - 999 M fbm; sawmill-planing complexes, less than 100 M fbm; independent planing mills; wood treating plants; pulp, paper and fiberboard mills; and miscellaneous wood-using industries.

The information was collected in the fall of 1985 and spring of 1986 through interviews with owners or managers of the various operations. It relates to a one-year operating period, either fiscal or calendar, ending in 1985.

For consistency, all product volumes, sizes, and descriptions are reported in imperial units. Production is reported for lumber in foot board measure, roundwood in cords or cubic feet (ft^3), pulp and paper in tons, and fiberboard in square feet (ft^2). A summary of the number of firms, total annual production, and direct employment estimates by industry category and size is presented in imperial and metric units, on pages iii and iv.

Appendix I contains information regarding forestry personnel of the Manitoba Natural Resources, Appendix II contains associations relevant to Manitoba's primary wood-using industries, Appendix III contains information on Manitoba's timber allocation system, Appendix IV contains conversion factors used in this directory.

GLOSSARY OF TERMS

Abbreviations:

fbm	-	foot board measure
BDU	-	bone dry unit (2400 lb of bone dry wood chips)
M	-	thousand
MM	-	million
ft	-	feet
ft^2	-	square feet
ft^3	-	cubic feet
lb	-	pound
mm	-	millimetre
cm	-	centimetre
m	-	metre
km	-	kilometre
m^2	-	square metre
m^3	-	cubic metre
kg	-	kilogram

CFPA - Central Forest Products Association
SEQHA - Southeast Quota Holders' Association
N/A - not available

Tree Species:

Coniferous trees

EC	-	eastern white cedar
BF	-	balsam fir
TL	-	tamarack/larch
JP	-	jack pine
RP	-	red pine
BS	-	black spruce
WS	-	white spruce

Other conifers - Douglas-fir, western red cedar and other tree species combination

Deciduous trees

AS	-	green ash
WB	-	white birch
E	-	white elm
BO	-	bur oak
PO	-	(TA - trembling aspen (BA - balsam poplar)

and balsam poplar

Other hardwoods - white and red oak

Definitions:

Custom sawing and/or planing - The mills that provide this service cut and/or plane other industries' or individual's logs and lumber for a service charge.

Cutting to customer's specifications - The mills that provide this service provide the option of allowing the customer to specify the sizes of the final product.

Local - pertaining to markets; defined as the area within a 50 mile radius.

Person-year - equivalent to 240 days at eight hours per day.

Roundwood - includes sawlogs, pulpwood, and firewood.

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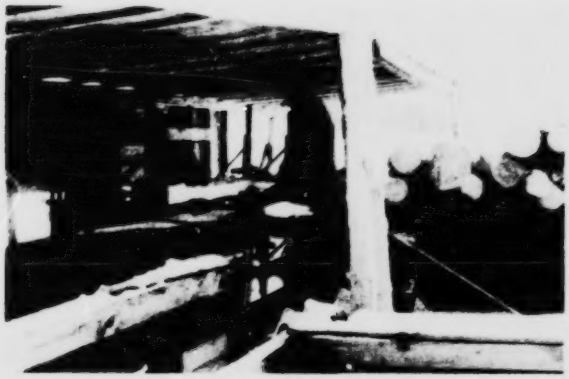
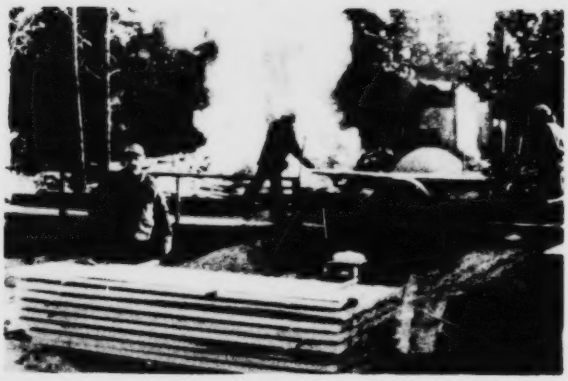
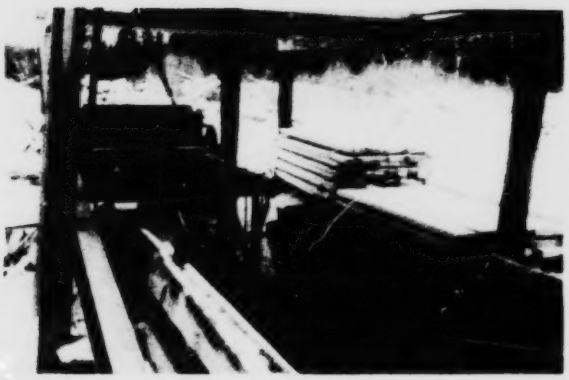


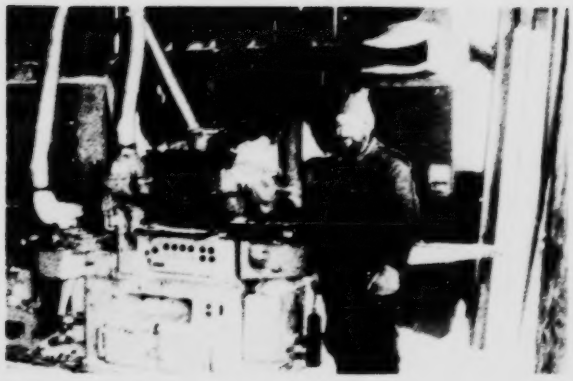
Infeed deck and circular headsaw.



Portable sawmill - Pineland section.

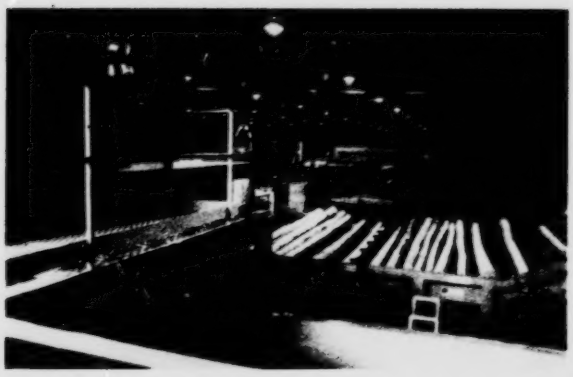


Rough lumber - stationary mill.

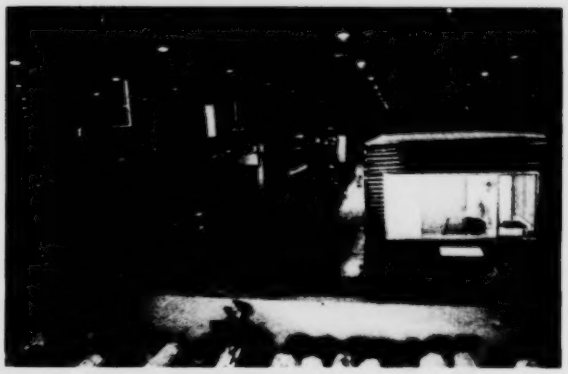


Planer for lumber dressing.

Dressed hardwood boards.



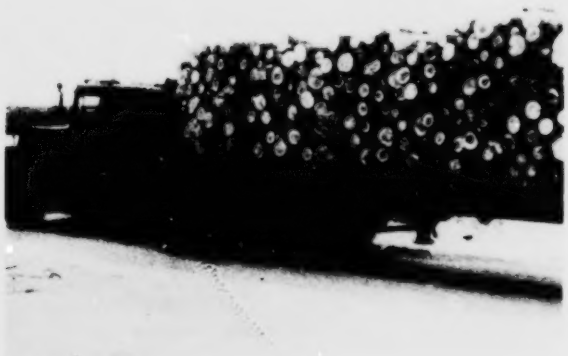
Log infeed deck at Manfor Ltd.



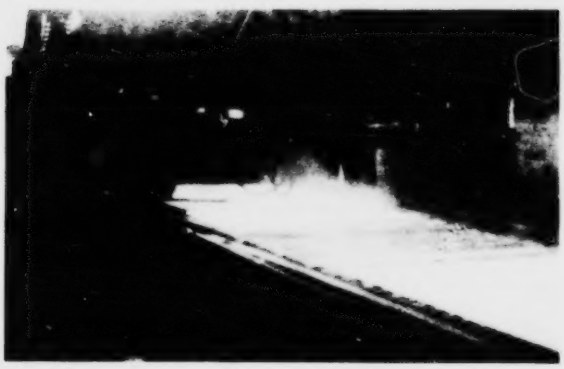
Manfor Ltd. Optimil.

Stockpile of pulpwood blocks.

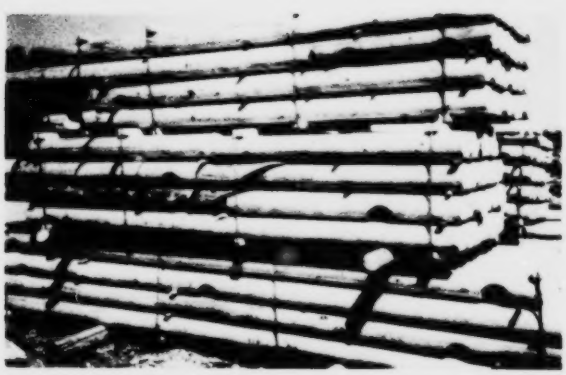
Pulpmill at Pine Falls.



Aspen logs for roofing felt.



Production line at insulation mill.



Notched logs for log home construction.

SAWMILL-PLANING COMPLEXES

More than 5 MM fbm

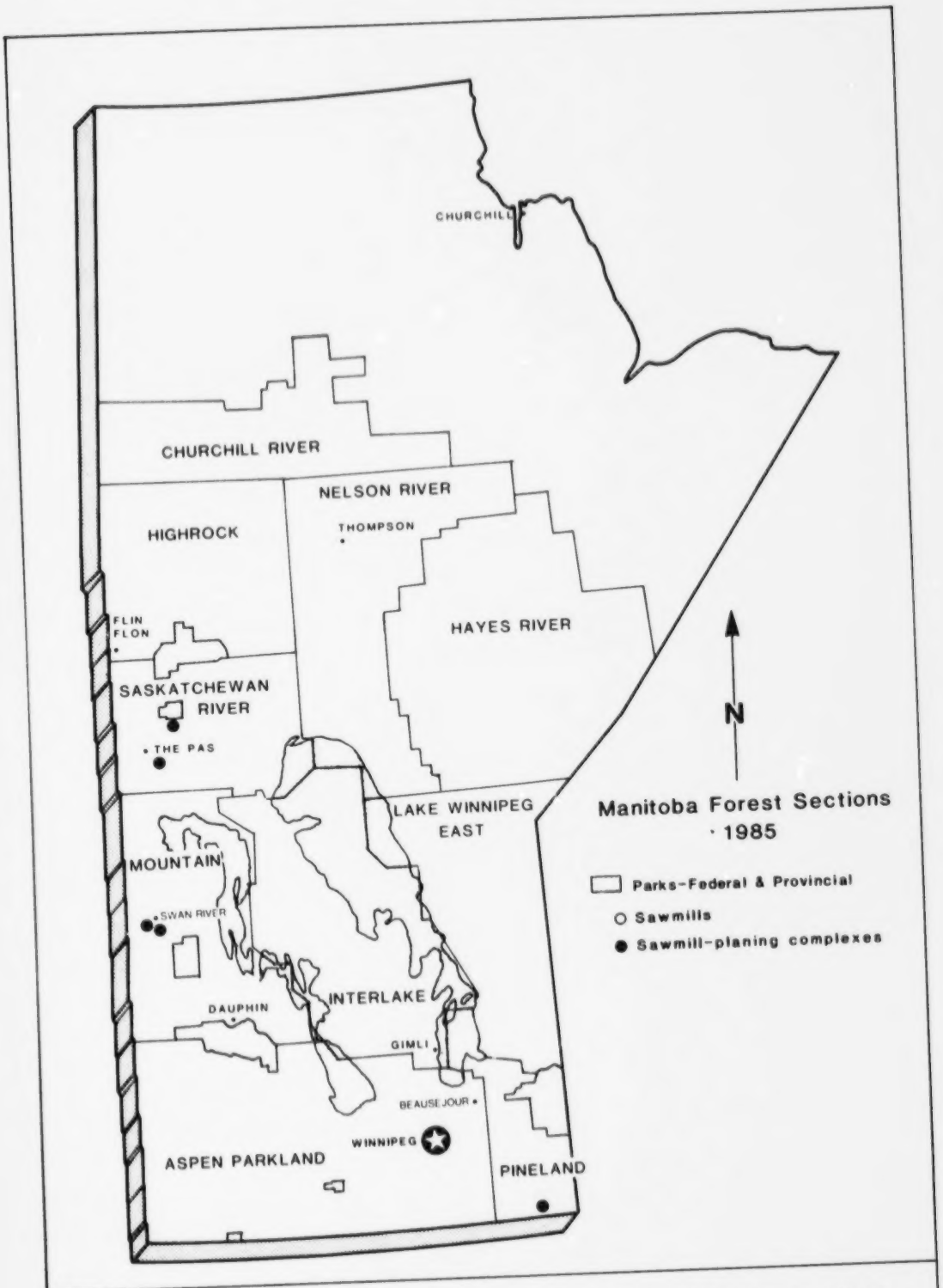


Figure 1. Location of sawmills producing more than 5MM fbm per year.

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More than 5MM fbm

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MANFOR LTD.

ADDRESS:	Box 1590 The Pas, Manitoba R9A 1L4
TELEPHONE:	623-7411
TELEX:	0766-260
MILL LOCATION:	The Pas, Manitoba
OWNERS:	Crown Corporation of the Province of Manitoba
WOODLANDS MANAGEMENT:	Bill Jonas, Division Manager, Lumber Woodlands
MILL MANAGEMENT:	Harold Ginter, Lumber Division Manager Gary Dolinski, Maintenance Manager
MILL CAPACITY:	Sawmill - 180 M fbm/8 hr shift Planing mill - 150 M fbm/8 hr shift
PRODUCTION 1984-85:	49.0 MM fbm 53.1 M BDU chips
PRODUCTS:	Dimension lumber: 2 x 4 - 5% 2 x 6 - 77% 2 x 8 - 16% Boards - 2% Random lengths, dressed, kiln-dried
PRODUCTS BY GRADE:	#2 and better - 78% #3 - 17% Economy - 5%
SPECIES UTILIZED:	JP - 60% WS - 20% BS - 20%
WOOD SUPPLY:	Negotiated agreement - 85% Purchased: Manitoba - 10% Saskatchewan - 5%
AVERAGE LOG HAUL WOODS TO MILL:	70 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	Sawmill - 1984

MANFOR LTD.
(continued)

AVERAGE EMPLOYMENT
MONTHS OF OPERATION:

WOODLANDS:

Contract -	196	J	F	M	A	M	J	J	A	S	O	N	D
Own -	129	J	F	M	A	M	J	J	A	S	O	N	D
SAWMILL:	70	J	F	M	A	M	J	J	A	S	O	N	D
PLANING MILL:	43	J	F	M	A	M	J	J	A	S	O	N	D
SALES/OFFICE:	6	J	F	M	A	M	J	J	A	S	O	N	D

TRANSPORTATION:

INPUTS:	Truck	- 90%
	Rail (CNR)	- 10%
PRODUCTS:	Rail (CNR)	- 96%
	Truck	- 4%

MARKETS:

Midwestern USA	- 60%
Manitoba	- 35%
Local	- 5%

SPECIAL SERVICES: Precision end trimmed, unit strapped, dressed, graded and packaged

MEMBERSHIPS:
Canadian Pulp and Paper Association
Central Forest Products Association
Forintek Canada Corp.
Forest Engineering Research Institute of Canada
Pulp and Paper Research Institute of Canada

MILL STAMP: CFPA #44

ENERGY SUPPLY FOR MILL:
Electricity - self generated
Steam heat - self generated

USAGE OF WOOD RESIDUES:
Tops, slabs and edgings - wood chips
Bark - hog fuel

WOODLANDS EQUIPMENT:
10 - Forano 1 man slashers
2 - Champion graders
1 - John Deere grader
7 - Komatsu crawlers
2 - Pettibone Super 20
1 - Michigan loader 125
1 - Cruz-Aire 40 BYR
1 - Drott 40 loader
1 - Tanguay Knuckleboom loader
46 - Service vehicles
6 - Crew buses

MANFOR LTD.
(continued)

MILL FACILITIES/EQUIPMENT:	Stationary sawmill-planing mill complex 2 - Stationary debarking plants 2 - 50" Forano slasher saws 4 - Valon Kone model 450 debarkers 1 - 20" Brunette Optimil, double length, full taper, chipper canter 1 - 12" Brunette Optimil, double length, full taper, chipper canter 2 - Opcon Optimux scanning systems 2 - ACT Scanner/computer systems 2 - 20 flying log turners 1 - Double arbor shifting resaw 1 - PHL Model B6-V15L double arbor vertical edger 1 - 16' Brunette 2-head chipping edger 1 - PHL Model B6-V15 double arbor, vertical edger 1 - 8' Brunette reman pocket edger 1 - SAAB Model 2300T 16' wane-up/wane-down, trimmer optimizer 1 - Irvington Moore 667 mechanical lift 16' trimmer 1 - Newnes 26 bin lumber sorter 2 - Newnes Neutronic lug loaders 1 - Precision end trimmer 1 - Automatic Newnes stacker 1 - 48" Williams hog pulverizer 1 - 66" Carthage chipper 1 - Letson Burpee 5' bandsaw 3 - HR 662 Holmes blowers 1 - HR 80 Holmes blower 6 - Moore dry kilns - 100 M fbm/charge 1 - Moore unstacker 1 - 6-12C1 Stetson Ross planer 1 - Irvington Moore mechanical lift 16' trimmer 1 - Moore end stacker 1 - Acme strapper 3 - 1641 Volvo loaders 6 - Forklifts 5 - Service vehicles
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Small timber size
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$38,868,000
FOREST SECTION:	Saskatchewan River

SANDILANDS FOREST PRODUCTS LTD.

ADDRESS:	Box 80 Sprague, Manitoba R0A 1Z0
TELEPHONE:	437-2132
MILL LOCATION:	Sprague, Manitoba
OWNERS:	South East Forest Products and Reg Turgeon
MILL MANAGEMENT:	Reg Turgeon
MILL CAPACITY:	Sawmill - 30 M fbm/8 hr shift Planing mill - 40 M fbm/8 hr shift
PRODUCTION 1984-85:	6.5 MM fbm 7.7 M BDU wood chips 3.0 M cords pulpwood
PRODUCTS:	Dimension lumber: 2 x 3 - 3% 2 x 4 - 15% 2 x 6 - 12% 6-8' lengths, dressed, kiln dried Speciality items: 1-1/4 x 4 - 17% 1-1/2 x 4 - 19% 1-3/4 x 4 - 12% 6-8' lengths, 50% dressed, kiln dried Boards: 1 x 4 - 8% 1 x 6 - 10% 1 x 8 - 4% 6-8' lengths, rough
PRODUCTS BY GRADE:	Stud grade - 80% Utility - 8% Economy - 7% Cut backs - 5%
SPECIES UTILIZED:	PO - 65% JP - 35%
WOOD SUPPLY:	Quota - 50% Purchased - 50%
AVERAGE LOG HAUL WOODS TO MILL:	38 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1969

SANDILANDS FOREST PRODUCTS LTD.
(continued)

AVERAGE EMPLOYMENT MONTHS OF OPERATION:	WOODLANDS: Own -	7 J F M A M J J A S O N D
	SAWMILL:	32 J F M A M J J A S O N D
	SALES/OFFICE:	3 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS:	Truck
	PRODUCTS:	Truck
MARKETS:	Midwestern USA - 88% Manitoba - 12%	
SPECIAL SERVICES:	Cuts to customers' specifications, end coated, unit strapped, dressed and graded	
MEMBERSHIPS:	Central Forest Products Association Forintek Canada Corp.	
MILL STAMP:	CFPA #42	
ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro Steam heat - Self generated	
USAGE OF WOOD RESIDUES:	Slabs and edgings - wood chips Shavings - agricultural use Sawdust - hog fuel Bark - no use, burned	
WOODLANDS EQUIPMENT:	1 - Ford log truck with Barko loader 1 - C4 Timberjack skidder	
MILL FACILITIES/EQUIPMENT:	Stationary sawmill-planing mill complex 1 - Manitowoe debarker 1 - Forano twin band 1 - Butterfield double arbor edger 1 - Forano board edger 1 - Forano horizontal resaw 1 - Forano single arbor bull edger 1 - Edge sorter 1 - Nicholson chipper 1 - Steam boiler 1 - Bachrich kiln (90 M fbm/charge), steam heated 1 - Yates A-20 planer 3 - Pettibone Super 15 loaders 2 - Massey Ferguson loader 1 - 9000 Ford tractor with 3 lumber trailers 6 - Chip trailers	
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Market fluctuations	

SANDILANDS FOREST PRODUCTS LTD.
(continued)

ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$800,000
FOREST SECTION:	Pineland

SOUTH-EAST FOREST PRODUCTS LTD.
(Swan River)

ADDRESS:	Blumenort, Manitoba R0A 0C6 or Box 159 Swan River, Manitoba R0L 1Z0
TELEPHONE:	326-1341 - Blumenort 734-2097 - Swan River
MILL LOCATION:	Swan River, Manitoba
OWNERS:	South-East Forest Products Ltd.
WOODLANDS MANAGEMENT:	Dave Sokolowski
MILL MANAGEMENT:	Dave Sokolowski, Mill Manager Richard Barteski, Production Manager
MILL CAPACITY:	Sawmill - 35 M fbm/8 hr shift Planing mill - 30 M fbm/8 hr shift
PRODUCTION 1984-85:	6.0 MM fbm 2.5 M BDU wood chips
PRODUCTS:	Dimension lumber: 2 x 4 - 42% 2 x 6 - 22% 2 x 8 - 13% 2 x 10 - 9% Boards: 1 x 4 - 8% 1 x 6 - 4% 1 x 8 - 2% Random lengths, rough
SPECIES UTILIZED:	WS - 65% JP - 35%
WOOD SUPPLY:	Quota
AVERAGE LOG HAUL WOODS TO MILL:	50 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1968 (Sawmill destroyed by fire February 1986.)

SOUTH-EAST FOREST PRODUCTS LTD.
(Swan River, continued)

AVERAGE EMPLOYMENT MONTHS OF OPERATION:	WOODLANDS: Contract - 20 J F M - - - - - - - - - D SAWMILL: 18 - - - - M J J A S O N - SALES/OFFICE: 2 J F M - M J J A S O N D
TRANSPORTATION:	INPUTS: Truck PRODUCTS: Truck
MARKETS:	Midwestern USA - 65% Manitoba - 35% All lumber dressed at Blumenort planing mill
MARKETING AGENTS:	South-East Forest Products Ltd. Blumenort, Manitoba R0A 0C0
SPECIAL SERVICES:	Cuts to customers' specifications and unit strapped
MEMBERSHIPS:	Central Forest Products Association Forintek Canada Corp.
MILL STAMP:	CFPA #30
ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro
USAGE OF WOOD RESIDUES:	Slabs and edgings - wood chips Bark, sawdust and shavings - no use, burned
WOODLANDS EQUIPMENT:	1 - Hahn tree harvester 1 - International crawler with snipper 1 - D7 Caterpillar crawler 1 - Tree Farmer skidder 1 - Loader 1 - J5 Bombardier
MILL FACILITIES/EQUIPMENT:	Stationary sawmill 1 - Mainland slasher unit 1 - Morbark debarker 1 - Twin blade scragg-52" circular 1 - Bull edger 1 - Sorting system 1 - Line bar resaw 1 - Trim saw assembly 1 - Edge sort greenchain 1 - Morbark chipper 2 - Patrick forklifts

SOUTH-EAST FOREST PRODUCTS LTD.
(Swan River, continued)

MILL FACILITIES/EQUIPMENT: (continued)	1 - Beaver 49 Alco planer 2 - Chip haul vans 1 - Portable sawmill with 52" circular headsaw
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Log yard soil stability, timber supply
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$600,000
FOREST SECTION:	Mountain

SPRUCE PRODUCTS LTD.
(Atikameg Lake)

ADDRESS:	Childs Building 810 - 211 Portage Avenue Winnipeg, Manitoba R3B 2A2 or Atikameg Lake Sawmill Box 1199 The Pas, Manitoba R9A 0Y3
TELEPHONE:	942-6427 - Winnipeg 624-5479 - Atikameg Lake
MILL LOCATION:	Atikameg Lake, Manitoba
MILL MANAGEMENT:	Stan Hoard, Mill Manager
MILL CAPACITY:	Sawmill - 35 M fbm/8 hr shift Planing mill - 40 M fbm/8 hr shift
PRODUCTION 1984-85:	7.0 MM fbm 2.9 M BDU chips 5.0 M cords pulpwood
PRODUCTS:	Dimension lumber: 2 x 4 - 33% 2 x 6 - 11% 2 x 8 - 6% 2 x 10 - 5% Boards: 1 x 4 - 8% 1 x 6 - 2% Random lengths, 83% dressed, 17% rough Mine timbers - 30% Railway ties - 5%
PRODUCTS BY GRADE:	#2 and better - 90% Utility - 6% Economy - 4%
SPECIES UTILIZED:	JP - 60% WS - 20% BS - 20%
WOOD SUPPLY:	Quota - 77% Purchased - 23%

SPRUCE PRODUCTS LTD.
(Atikameg Lake, continued)

AVERAGE LOG HAUL WOODS TO MILL:	45 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1970
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	WOODLANDS: Contract - 10 J F M - - J J A - O N D SAWMILL: 12 J F M A M J J A S O N D SALES/OFFICE: 1 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Truck PRODUCTS: Truck - 95% Rail (CNR) - 5%
MARKETS:	Manitoba - 95% Ontario - 5%
SPECIAL SERVICES:	Cuts to customers' specifications, unit strapped, dressed and graded
MEMBERSHIPS:	Central Forest Products Association Forintek Canada Corp.
MILL STAMP:	CFPA #12
ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro
USAGE OF WOOD RESIDUES:	Slabs and edgings - wood chips Bark, sawdust and shavings - hog fuel
WOODLANDS EQUIPMENT:	1 - D6 Caterpillar crawler 1 - Skidder
MILL FACILITIES/EQUIPMENT:	Stationary sawmill-planing mill complex 1 - Morbark debarker 1 - Mainland 4-saw scragg 1 - Mainland edger 1 - Alco planer 1 - Resaw 1 - Precision 48" chip-pak chipper Mainland conveyors and trim saw assembly 2 - Volvo 4300 loaders
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Market fluctuations
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$975,000
FOREST SECTION:	Saskatchewan River

SPRUCE PRODUCTS LTD.
(Swan River)

ADDRESS:	Childs Building 810 - 211 Portage Avenue Winnipeg, Manitoba R3B 2A2 or Box 873 Swan River, Manitoba R0L 1Z0
TELEPHONE:	942-6427 - Winnipeg 734-3089 - Swan River
MILL LOCATION:	Swan River, Manitoba
MILL MANAGEMENT:	Dick Walker
MILL CAPACITY:	Sawmill - 50 M fbm/8 hr shift Planing mill - 65 M fbm/8 hr shift
PRODUCTION 1984-85:	10.0 MM fbm 5.8 M BDU chips 17.0 M cords pulpwood
PRODUCTS:	Dimension lumber: 2 x 4 - 24% 2 x 6 - 21% 2 x 8 - 10% 2 x 10 - 14% Boards: 1 x 4 - 11% 1 x 6 - 8% 1 x 8 - 5% Random lengths, 93% dressed, 7% rough Mine timbers - 2% Railway ties - 5%
PRODUCTS BY GRADE:	#2 and better - 95% Utility - 3% Economy - 2%
SPECIES UTILIZED:	WS - 48% JP - 28% BS - 19% PO - 5%
WOOD SUPPLY:	Quota

SPRUCE PRODUCTS LTD.
(Swan River, continued)

AVERAGE LOG HAUL WOODS TO MILL:	35 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1974
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	WOODLANDS: Contract - 40 J F M - - - J A S O N D SAWMILL: 24 J F M A M J J A S O N D SALES/OFFICE: 3 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Truck PRODUCTS: Truck - 85% Rail (CNR) - 15%
MARKETS:	Manitoba - 95% Ontario - 5%
SPECIAL SERVICES:	Cuts to customers' specifications, unit strapped, end painted, dressed and graded, custom planing
MEMBERSHIPS:	Central Forest Products Association Forintek Canada Corp.
MILL STAMP:	CFPA #26
ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro
USAGE OF WOOD RESIDUES:	Slabs, edgings and blocks - wood chips Bark, sawdust and shavings - hog fuel
MILL FACILITIES/EQUIPMENT:	Stationary sawmill-planing mill complex 1 - Morbark 630 debarker 1 - Valon Kone 450 debarker 1 - Mainland twin scragg 1 - Mainland split roll edger 1 - Mainland slab resaw 1 - Mainland system of conveyors 1 - Mainland trim saw assembly 1 - Greenchain 1 - Precision 54" chipper and screen 1 - Yates 820 planer 1 - McDonough band resaw 4 - Volvo 840 loaders 1 - D-4 Caterpillar crawler 1 - Grader
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Market fluctuations

SPRUCE PRODUCTS LTD.
(Swan River, continued)

ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$2,150,000
FOREST SECTION:	Mountain

SAWMILL-PLANING COMPLEXES
1 MM TO 4.999 MM FBM

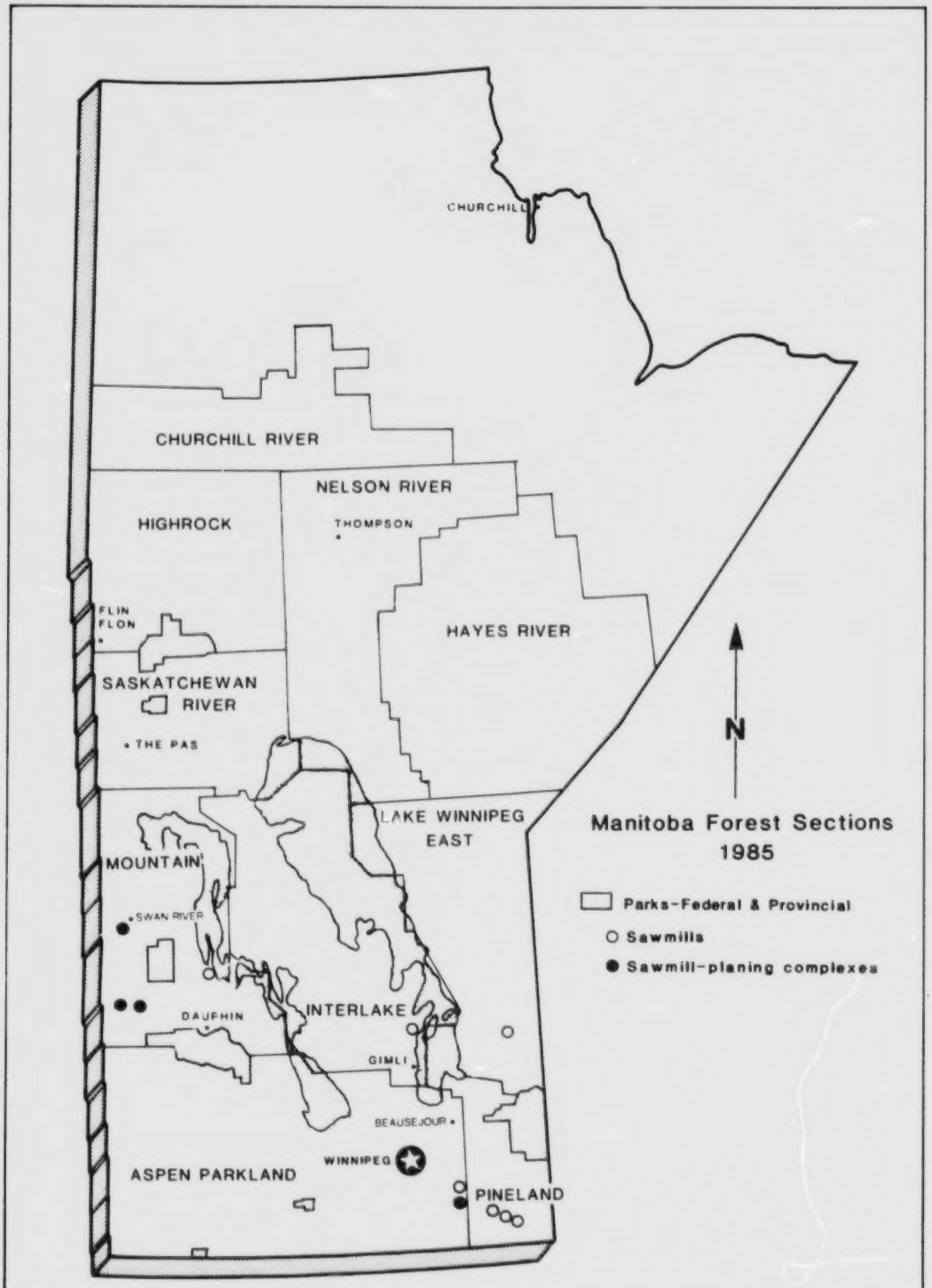

Figure 2. Location of sawmills producing 1MM to 4.999MM fbm per year.

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Sawmill-planing complexes
1 MM to 4.999 MM fbm

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BARKMAN, BENJAMIN

ADDRESS:	Riverton, Manitoba R0C 2A0
TELEPHONE:	378-2729
MILL LOCATION:	Riverton, Manitoba
MILL MANAGEMENT:	Benjamin Barkman
MILL CAPACITY:	Sawmill - 10 M fbm/8 hr shift
PRODUCTION 1984-85:	1.6 MM fbm
PRODUCTS:	Dimension lumber: 2 x 4 - 21% 2 x 6 - 30% 2 x 8 - 30% 2 x 10 - 15% Boards - 2% Random lengths, rough Timbers - 2%
SPECIES UTILIZED:	WS - 70% BS - 30%
WOOD SUPPLY:	Quota
AVERAGE LOG HAUL WOODS TO MILL:	70 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1971
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	WOODLANDS: Own - 6 J F - - - - - - - - - D SAWMILL: 6 J F M - - - - - - - - -
TRANSPORTATION:	INPUTS: Truck PRODUCTS: Truck
MARKETS:	Manitoba
SPECIAL SERVICES:	Custom sawing
USAGE OF WOOD RESIDUES:	Slabs, edgings and sawdust - no use, piled
WOODLANDS EQUIPMENT:	1 - D6 Caterpillar crawler 1 - 175 International truck 1 - Trailer

BARKMAN, BENJAMIN
(continued)

MILL FACILITIES/EQUIPMENT:	Portable sawmill 1 - 48" circular headsaw 1 - Edger, 4-saw 1 - 830 Case power unit 1 - Tractor with front end loader
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Timber supply
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$70,000
FOREST SECTION:	Interlake

BRITCHER ENTERPRISES LTD.

ADDRESS:	Bield, Manitoba R0L 1P0
TELEPHONE:	937-4991
MILL LOCATION:	Bield, Manitoba
MILL MANAGEMENT:	Roland Britcher
MILL CAPACITY:	Sawmill - 24 M fbm/8 hr shift Planer - 40 M fbm/8 hr shift
PRODUCTION 1984-85:	2.6 MM fbm
PRODUCTS:	Dimension lumber: 2 x 4 - 15% 2 x 6 - 36% 2 x 8 - 16% 2 x 10 - 13% Boards: 1 x 4 - 7% 1 x 6 - 10% 1 x 8 - 3% Random lengths, 60% dressed, 40% rough
PRODUCTS BY GRADE:	#2 and better - 70% Construction, standard - 15% Utility - 15%
SPECIES UTILIZED:	WS - 80% PO - 20%
WOOD SUPPLY:	Quota - 77% Purchased - 23%
AVERAGE LOG HAUL WOODS TO MILL:	24 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1977
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	WOODLANDS: Contract - 12 J F M - - J J A S O N D SAWMILL: 11 J F M A M J J A S O N D PLANER: 6 - - M A M J J A - - - - SALES/OFFICE: 1 J F M A M J J A S O N D

BRITCHER ENTERPRISES LTD.
(continued)

TRANSPORTATION:	INPUTS: Truck PRODUCTS: Truck
MARKETS:	Saskatchewan - 45% Manitoba - 40% Local - 10% Midwestern USA - 5%
SPECIAL SERVICES:	Cuts to customers' specifications, unit strapped, dressed and graded, precision end trimmed
MEMBERSHIPS:	Central Forest Products Association Forintek Canada Corp.
MILL STAMP:	CFPA #24
ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro
USAGE OF WOOD RESIDUES:	Slabs and edgings - 85% agricultural use, 15% firewood Sawdust, shavings - agricultural use
WOODLANDS EQUIPMENT:	3 - HD-10 Allis Chalmers caterpillars 2 - Model M Allis Chalmers caterpillars 1 - International 200 lumber truck and trailer 1 - Mercury 800 lumber truck with trailer 1 - Kenworth 350 truck
MILL FACILITIES/EQUIPMENT:	Stationary sawmill - planing mill complex 1 - 48" circular headsaw 1 - Yates 44" band resaw 1 - McDonough 54" band resaw 1 - Edger, 3-saw 1 - Trim saw assembly 1 - Edge sort green chain 1 - Berlin circular resaw 1 - Berlin 94 planer 3 - Hough loaders 1 - Forklift 1 - Ford front end loader
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Market fluctuations
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$550,000
FOREST SECTION:	Mountain

GODARD FOREST PRODUCTS LTD.

ADDRESS:	Box 29 Richer, Manitoba R0E 1S0
TELEPHONE:	422-5662
MILL LOCATION:	Portable sawmill, various locations in Pineland and Aspen Parkland Forest Sections
MILL MANAGEMENT:	Jules Godard
MILL CAPACITY:	Sawmill - 15 M fbm/8 hr shift
PRODUCTION 1984-85:	1.5 MM fbm
PRODUCTS:	Dimension lumber: 2 x 6 - 15% 2 x 8 - 20% 2 x 10 - 5% Random lengths, rough Timbers: 3 x 3 - 25% 4 x 4 - 35%
SPECIES UTILIZED:	PO
WOOD SUPPLY:	Quota
AVERAGE LOG HAUL WOODS TO MILL:	0.5 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1964
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	WOODLANDS: Contract - 5 J F - - - - - - - - - D Own - 1 J F - - - - - - - - - D SAWMILL: 3 J F M A M J J A S O N D SALES/OFFICE: 1 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Skidder PRODUCTS: Truck
MARKETS:	Manitoba
SPECIAL SERVICES:	Custom sawing
USAGE OF WOOD RESIDUES:	Slabs, sawdust and edgings - no use, burned
WOODLANDS EQUIPMENT:	2 - Tree Farmer skidders 1 - Allis Chalmers crawler 1 - Grader

GODARD FOREST PRODUCTS LTD.
(continued)

MILL FACILITIES/EQUIPMENT:	Portable sawmill 1 - 42" circular headsaw 1 - Trim saw assembly 2 - Forklifts 2 - Allis Chalmers loaders 2 - Allis Chalmers power units
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Wood supply
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$200,000
FOREST SECTION:	Aspen Parkland

HOLLAND LEISURE LTD.

ADDRESS:	Box 1268 Swan River, Manitoba R0L 1Z0
TELEPHONE:	734-3132
MILL LOCATION:	Portable sawmill, located at Winnipegosis
MILL MANAGEMENT:	Don Holland
MILL CAPACITY:	Sawmill - 20 M fbm/8 hr shift
PRODUCTION 1984-85:	1.2 MM fbm
PRODUCTS:	Dimension lumber: 2 x 4 - 14% 2 x 6 - 27% 2 x 8 - 27% Boards: 1 x 4 - 10% 1 x 6 - 10% 1 x 8 - 10% Random lengths, rough Timbers - 2%
SPECIES UTILIZED:	WS - 90% JP - 10%
WOOD SUPPLY:	Quota - custom sawing for receiver of Winnipegosis Box and Millwork Ltd.
AVERAGE LOG HAUL WOODS TO MILL:	50 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1982
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	SAWMILL: 6 - - - A M J J A - - - -
TRANSPORTATION:	INPUTS: Tug boat PRODUCTS: Truck
MARKETS:	Manitoba
SPECIAL SERVICES:	Custom sawing only
ENERGY SUPPLY FOR MILL:	Diesel power unit

HOLLAND LEISURE LTD.
(continued)

USAGE OF WOOD RESIDUES:	Slabs, sawdust and edgings - no use, burned
MILL FACILITIES/EQUIPMENT:	Portable sawmill 1 - 48" circular headsaw 1 - 52" circular headsaw 1 - Edger, 4-saw 1 - 671 GM diesel power plant
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Wood supply
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$65,000
FOREST SECTION:	Mountain

KOTYK LUMBER LTD.

ADDRESS:	Box 1606 Swan River, Manitoba R0L 1Z0
TELEPHONE:	734-3819
MILL LOCATION:	Swan River, Manitoba
OWNERS:	Nick Kotyk and Sons
WOODLANDS MANAGEMENT:	Nick Kotyk
MILL MANAGEMENT:	Nick Kotyk
MILL CAPACITY:	Sawmill - 15 M fbm/8 hr shift Planing mill - 20 M fbm/8 hr shift
PRODUCTION 1984-85:	1.5 MM fbm 300 cords pulpwood
PRODUCTS:	Dimension lumber: 2 x 4 - 6% 2 x 6 - 40% 2 x 8 - 32% 2 x 10 - 6% Boards - 6% Random lengths, 85% dressed, 15% rough Timbers - 2% Railway ties - 8%
PRODUCTS BY GRADE:	Construction, standard or #2 and better - 80% Utility - 12% Economy - 8%
SPECIES UTILIZED:	JP - 45% WS - 40% PO - 15%
WOOD SUPPLY:	Quota - 86% Purchased - 14%
AVERAGE LOG HAUL WOODS TO MILL:	36 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1975

KOTYK LUMBER LTD.
(continued)

AVERAGE EMPLOYMENT MONTHS OF OPERATION:	WOODLANDS: 10 J F - - - - - - - - - N D SAWMILL: 9 - - - A M J J A S O - - SALES/OFFICE: 1 - - - A M J J A S O - -
TRANSPORTATION:	INPUTS: Truck PRODUCTS: Truck - 90% Rail (CNR) - 10%
MARKETS:	Manitoba - 44% Local - 20% Midwestern USA - 18% Saskatchewan - 10% Alberta - 8%
SPECIAL SERVICES:	Cuts to customers' specifications, end coated, unit strapped, dressed and graded
MEMBERSHIPS:	Central Forest Products Association Forintek Canada Corp.
MILL STAMP:	CFPA #34
ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro Diesel power unit
USAGE OF WOOD RESIDUES:	Slabs and edgings - 40% firewood, 35% hog fuel, 25% no use, burned Sawdust and shavings - no use, burned Bark - hog fuel
WOODLANDS EQUIPMENT:	1 - 78 Ford log truck with Barko 80 cherry picker 1 - C4 Tree Farmer skidder 2 - C5 Tree Farmer skidders 1 - HDH Allis Chalmers crawler
MILL FACILITIES/EQUIPMENT:	Stationary sawmill - planing mill complex 1 - 48" circular headsaw 1 - Tanguay slasher 1 - Coutts 2-saw scragg 1 - Coutts edger 1 - Resaw 1 - Alco planer 1 - 641 Volvo loader 1 - Case W18 loader 1 - Lath mill 1 - Post peeler 1 - Franklin forwarder

KOTYK LUMBER LTD.
(continued)

LIMITING FACTORS FOR OPERATION AND EXPANSION:	Timber supply, labor shortage, market fluctuations
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$760,000
FOREST SECTION:	Mountain

LA BROQUERIE LUMBER (1978) LTD.

ADDRESS:	Box 160 La Broquerie, Manitoba R0A 0W0
TELEPHONE:	424-5333
MILL LOCATION:	La Broquerie, Manitoba
MILL MANAGEMENT:	Louis Tetrault
MILL CAPACITY:	Sawmill - 8 M fbm/8 hr shift Planing mill - 30 M fbm/8 hr shift
PRODUCTION 1984-85:	1.0 MM fbm
PRODUCTS:	Dimension lumber: 2 x 4 - 22% 2 x 6 - 33% 2 x 8 - 2% Board lumber: 1 x 4 - 2% 1 x 6 - 20% 1 x 8 - 8% 8' lengths, 75% dressed, 25% rough Timbers - 13%
PRODUCTS BY GRADE:	Stud grade - 80% #2 and better - 10% Economy - 10%
SPECIES UTILIZED:	JP - 55% PO - 45%
WOOD SUPPLY:	Purchased
AVERAGE LOG HAUL WOODS TO MILL:	40 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1978
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	SAWMILL: 5 J F M A M J J A S O N D SALES/OFFICE: 2 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Truck PRODUCTS: Truck
MARKETS:	Manitoba - 60% Local - 40%

LA BROQUERIE LUMBER (1978) LTD.
(continued)

SPECIAL SERVICES:	Custom sawing and planing
MEMBERSHIPS:	Central Forest Products Association Forintek Canada Corp.
MILL STAMP:	CFPA #22
ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro
USAGE OF WOOD RESIDUES:	Slabs, edgings, sawdust and shavings - agricultural use
WOODLANDS EQUIPMENT:	1 - TD9 - International crawler 1 - Front-end loader 1 - 1/2 ton truck 1 - Barko cherry picker
MILL FACILITIES/EQUIPMENT:	Stationary sawmill - planing mill complex 1 - 48" circular headsaw 1 - Slab conveyor 1 - A20 Yates planer 1 - Trim saw assembly 1 - 48" band saw 2 - Forklifts
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Timber supply, market fluctuations
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$354,000
FOREST SECTION:	Aspen Parkland

POIRON, LUCIEN

ADDRESS:	Woodridge, Manitoba R0A 2N0
TELEPHONE:	429-2341
MILL LOCATION:	Portable sawmill, various locations in Pineland Forest Section
WOODLANDS MANAGEMENT:	Lucien Poiron
MILL MANAGEMENT:	Lucien Poiron
MILL CAPACITY:	Sawmill - 15 M fbm/8 hr shift
PRODUCTION 1984-85:	1.7 MM fbm
PRODUCTS:	Dimension lumber: 2 x 6 - 20% 2 x 8 - 24% 2 x 10 - 5% Boards: 1 x 4 - 2% 1 x 6 - 1% 1 x 8 - 1% Random lengths, rough Timbers: 4 x 6 - 12% 5 x 6 - 12% 6 x 6 - 12% Railway ties - 11%
SPECIES UTILIZED:	JP - 47% PO - 41% WS - 12%
WOOD SUPPLY:	Quota
AVERAGE LOG HAUL WOODS TO MILL:	0.5 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1984
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	WOODLANDS: Own - 7 J F M A M J J A S O N D SAWMILL: 5 J F M A M J J A S O N D SALES/OFFICE: 1 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Skidder PRODUCTS: Truck - 89% Rail (CNR) - 11%

POIRON, LUCIEN
(continued)

MARKETS:	Manitoba - 89% Ontario - 11%
SPECIAL SERVICES:	Custom sawing, cuts to customers' specifications
USAGE OF WOOD RESIDUES:	Slabs, edgings, trim and sawdust - no use, burned
WOODLANDS EQUIPMENT:	1 - 440B John Deere skidder 1 - C4 Tree Farmer skidder
MILL FACILITIES/EQUIPMENT:	Portable sawmill 1 - 48" circular headsaw 1 - 720 Allis Chalmers power unit
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Timber supply, market fluctuations
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$125,000
FOREST SECTION:	Pineland

ROBLIN FOREST PRODUCTS LTD.

ADDRESS:	Box 819 Roblin, Manitoba R0L 1P0
TELEPHONE:	937-2103
MILL LOCATION:	Roblin, Manitoba
OWNERS:	North America Lumber Ltd. 205 Fort Street Winnipeg, Manitoba R3L 1E3
WOODLANDS MANAGEMENT:	Ernie Tirchmann
MILL MANAGEMENT:	Ernie Tirchmann, General Manager Joyce Syko, Office Manager William Evans, Yard Foreman
MILL CAPACITY:	Sawmill - 60 M fbm/8 hr shift Planing mill - 60 M fbm/8 hr shift
PRODUCTION 1984-85:	3.7 MM fbm lumber 923 cords pulpwood (For details of treated material see page 110.)
PRODUCTS:	Dimension lumber: 2 x 4 - 48% 2 x 6 - 16% 2 x 8 - 8% 2 x 10 - 8% Boards: 1 x 4 - 9% 1 x 6 - 3% 1 x 8 - 1% Random lengths, 80% dressed, 20% rough Timbers: 4 x 4 - 3% 4 x 6 - 3% 6 x 6 - 1%
PRODUCTS BY GRADE:	Stud grade, construction, standard & #2 and better - 80% Utility - 20%
SPECIES UTILIZED:	JP - 58% WS - 40% PO - 2%

ROBLIN FOREST PRODUCTS LTD.
(continued)

WOOD SUPPLY:	Quota - 94% Purchased - 6%
AVERAGE LOG HAUL WOODS TO MILL:	45 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1958
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	WOODLANDS: Contract - 18 J F M - - J J A S O N D Own - 3 J F M - - - - - - - N D SAWMILL: 12 J F M A M J J A S O N D SALES/OFFICE: 3 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Truck PRODUCTS: Truck
MARKETS:	Manitoba - 59% Local - 22% Saskatchewan - 19%
SPECIAL SERVICES:	Unit strapped, dressed and graded
MEMBERSHIPS:	Central Forest Products Association Forintek Canada Corp. Canadian Wood Preservers' Association
MILL STAMP:	CFPA #20
ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro Natural gas - Intercity Gas Utilities Ltd.
USAGE OF WOOD RESIDUES:	Slabs and edgings - 80% no use, burned, 20% agricultural use Tops - 85% no use, burned, 15% agricultural use, 5% firewood Shavings - agricultural use Sawdust - no use, burned
WOODLANDS EQUIPMENT:	2 - DG Caterpillar crawlers 1 - D4 Caterpillar crawler 2 - AR7 Patrick loaders 1 - Champion grader 1 - White log truck 7 - Log and lumber trailers

ROBLIN FOREST PRODUCTS LTD.
(continued)

MILL FACILITIES/EQUIPMENT:	Stationary sawmill-planing mill complex 1 - 52" circular headsaw 1 - 2 Saw mobile scragg 1 - Log deck 1 - Slasher unit 1 - Morbark debarker 1 - Marathon gang saw 1 - Trojan edger 1 - Board edger 1 - Fryer - Cruickshank kiln (20 M fbm/charge) 1 - 250 gallon water tank with pump 1 - Yates A20 planer 1 - Off loading tilt hoist 1 - International forklift 2 - 840 Volvo loaders 1 - 920 Caterpillar loader 1 - Lath mill
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Timber supply, market fluctuatons
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$3,650,000
FOREST SECTION:	Mountain

For details of wood treating operation, see Roblin Forest Products Ltd., page 110.

SOUTH-EAST FOREST PRODUCTS LTD.
(Blumenort Sawmills)

ADDRESS:	Blumenort, Manitoba R0A 0C6
TELEPHONE:	326-1341 Blumenort 452-6118 Winnipeg direct number
MILL LOCATION:	Two portable sawmills, various locations in Pineland Section
WOODLANDS MANAGEMENT:	Nick Zulak, Woodlands Manager
MILL MANAGEMENT:	Abe Penner, General Manager Randy Penner, Mill Manager Peter Wiebe, Transportation and Maintenance Manager
MILL CAPACITY:	Sawmills - 20 M fbm/8 hr shift
PRODUCTION 1984-85:	1.5 MM fbm 15.0 M cords pulpwood
PRODUCTS:	Dimension lumber: 2 x 4 - 20% 2 x 6 - 25% 2 x 8 - 10% 2 x 10 - 25% Boards - 5% Random lengths, rough Timbers - 13% Railway ties - 2%
SPECIES UTILIZED:	JP - 65% WS - 35%
WOOD SUPPLY:	Quota
AVERAGE LOG HAUL WOODS TO MILL:	0.5 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1970
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	WOODLANDS: Contract - 20 J F M A M J J A S O N D Own - 1 J F M A M J J A S O N D SAWMILL: 12 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Skidder PRODUCTS: Truck

SOUTH-EAST FOREST PRODUCTS LTD.
(Blumenort Sawmills, continued)

MARKETS:	Midwestern USA - 65% Manitoba - 35% All lumber sold through South-East planer mill at Blumenort
MEMBERSHIPS:	Central Forest Products Association Forintek Canada Corp.
USAGE OF WOOD RESIDUES:	Slabs and edgings - no use, burned Sawdust - no use, piled
WOODLANDS EQUIPMENT:	1 - C-5 Tree Farmer skidder 1 - Allis Chalmers loader
MILL FACILITIES/EQUIPMENT:	Portable sawmills 2 - 42" circular headsaws
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Timber supply, market fluctuations
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$650,000
FOREST SECTION:	Pineland

WIENS CUSTOM SAWING

ADDRESS:	Box 2052 Steinbach, Manitoba R0A 2A0
TELEPHONE:	326-6337
MILL LOCATION:	Portable sawmill located at Bissett
MILL MANAGEMENT:	Earl Wiens
MILL CAPACITY:	Sawmill - 10 M fbm/8 hr shift
PRODUCTION 1984-85:	1.2 MM fbm
PRODUCTS:	Dimension lumber: 2 x 4 - 8% 2 x 6 - 19% 2 x 8 - 10% 2 x 10 - 9% Boards: 1 x 4 - 4% 1 x 6 - 4% 1 x 8 - 3% Random lengths, rough Timber: 4 x 4 - 13% 4 x 6 - 13% Railway ties - 17%
SPECIES UTILIZED:	JP - 58% WS - 42%
WOOD SUPPLY:	Quota
AVERAGE LOG HAUL WOODS TO MILL:	0.5 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1980
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	SAWMILL: 2 J F M A M J J A S O N D SALES/OFFICE: 1 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Skidder PRODUCTS: Truck
MARKETS:	Manitoba
SPECIAL SERVICES:	Custom sawing only

WIENS CUSTOM SAWING
(continued)

ENERGY SUPPLY FOR MILL:	Diesel power unit
USAGE OF WOOD RESIDUES:	Slabs, edgings, sawdust - no use, burned
WOODLANDS EQUIPMENT:	None
MILL FACILITIES/EQUIPMENT:	Portable sawmill 1 - 40" circular headsaw 1 - Timberjack loader 1 - F100 Ford truck
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Wood supply
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$70,000
FOREST SECTION:	Lake Winnipeg East

WIRGAU BROS. FOREST PRODUCTS

ADDRESS:	Box 18 Woodridge, Manitoba R0A 2N0
TELEPHONE:	429-2285
MILL LOCATION:	Portable sawmill, various locations in Pineland Forest Section
OWNERS:	Wirgau Brothers
WOODLANDS MANAGEMENT:	Louis Wirgau
MILL MANAGEMENT:	Harold Wirgau
MILL CAPACITY:	Sawmill - 12 M fbm/8 hr shift
PRODUCTION 1984-85:	2.2 MM fbm 4.0 M cords pulpwood
PRODUCTS:	Dimension lumber: 2 x 4 - 10% 2 x 6 - 15% 2 x 8 - 10% Boards: 1 x 4 - 5% 1 x 6 - 5% 1 x 8 - 5% Random lengths, rough Timbers: 6 x 6 - 13% 6 x 8 - 12% 8 x 8 - 13% 10 x 10 - 12%
SPECIES UTILIZED:	JP - 85% PO - 15%
WOOD SUPPLY:	Quota - 95% Purchased - 5%
AVERAGE LOG HAUL WOODS TO MILL:	20 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1981
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	WOODLANDS: Own - 16 J F M A M J J A S O N D SAWMILL: 4 J F M A M J J A S O N D SALES/OFFICE: 2 J F M A M J J A S O N D

WIRGAU BROS. FOREST PRODUCTS
(continued)

TRANSPORTATION:	INPUTS: Truck PRODUCTS: Truck
MARKETS:	Manitoba - 95% Local - 5%
SPECIAL SERVICES:	Cuts to customers' specifications, custom sawing
MEMBERSHIPS:	Central Forest Products Association Southeast Quota Holders Association
USAGE OF WOOD RESIDUES:	Slabs and edgings - 95% burned, 5% fuelwood Sawdust - no use, burned
WOODLANDS EQUIPMENT:	1 - C4D Tree Farmer skidder 1 - 664 Clark skidder 2 - 9000 Ford log trucks with Barko cherry pickers 1 - HD6 Allis Chalmers crawler 1 - 240 Timberjack front end loader 1 - 4430 John Deere front end loader 2 - Allis Chalmers loaders
MILL FACILITIES/EQUIPMENT:	Portable sawmill 1 - 44" circular headsaw 2 - 200 Timberjack front end loaders 1 - 660 International tractor
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Wood supply
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$750,000
FOREST SECTION:	Pineland

SAWMILL-PLANING COMPLEXES 100 M TO 999 M FBM

SAWMILL-PLANING COMPLEXES
100 M TO 999 M FBM

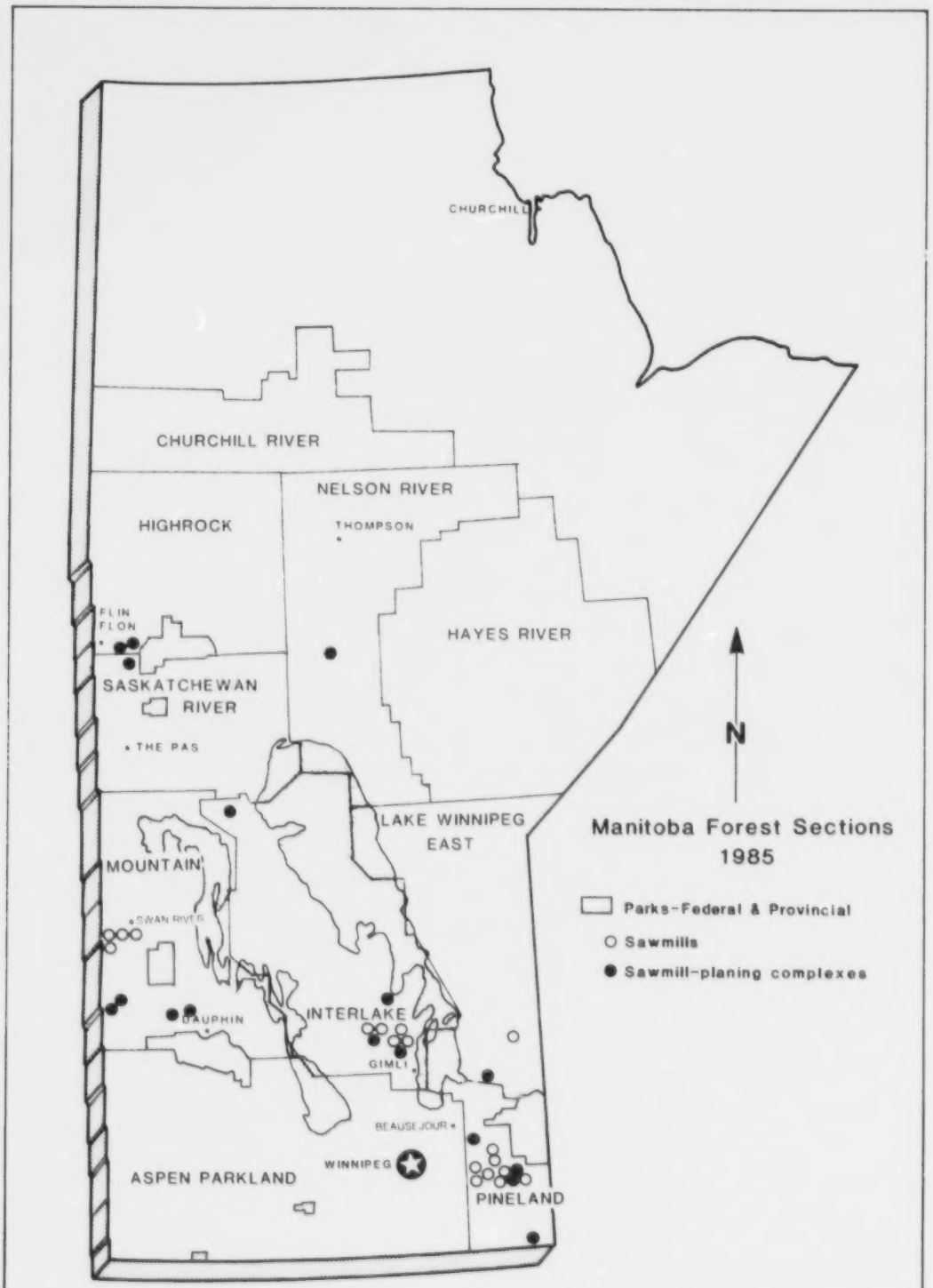

Figure 3. Location of sawmills producing 100M to 999M fbm per year.

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Sawmill-planing complexes
100 M to 999 M fbm

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Name	Address and Telephone	Production 1984-85 (M fbm)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Memberships
BUDAI LOGGING LTD.	Box 132 Cranberry Portage, Man. R0B 0H0 472-3314	300 1.6 M cords sawlogs 2.0 M cords pulpwood	Quota WS	Portable sawmill 48" or 52" circular headsaw Edger Planer	11	3.5	Dimension 2 x 4 - 4% 2 x 6 - 13% 2 x 8 - 13% 2 x 10 - 27% Boards - 9% 50% dressed, 50% rough Timbers 8 x 8 - 34% Services Custom sawing and planing	Manitoba
PETRYK BROS. LTD.	Box 249 Cranberry Portage, Man. R0B 0H0 472-3208	350 2.8 M cords sawlogs 2.7 M cords pulpwood	Quota WS - 80% JP - 20%	Stationary sawmill 48" circular headsaw Bull edger Trimmer Planer	5	6.5	Dimension 2 x 4 - 17% 2 x 6 - 19% 2 x 8 - 3% 2 x 10 - 16% Boards 1 x 4 - 7% 1 x 6 - 3% 50% dressed, 50% rough Timbers - 35% Services Cuts to customers' specifications	Manitoba - 82% Local - 18%

Name	Address and Telephone	Production 1984-85 (M fbm)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
BIG FOOT FOREST PRODUCTS	Easterville, Man. R0C 0V0 329-2150	270 2.2 M cords pulpwood	Quota - 75% Private - 25% JP - 80% WS - 20%	Portable sawmill 48" circular headsaw Edger Planer	22	4.4	Dimension 2 x 4 - 20% 2 x 6 - 25% 2 x 8 - 20% 2 x 10 - 30% Boards - 5% 30% dressed, 70% rough Services Cuts to customers' specifications	Manitoba
FISHER RIVER FOREST PRODUCTS	Koostatak, Man. R0C 1S0 645-2171	700 100 cords pulpwood	Quota WS	Stationary sawmill 42" circular headsaw Edger Planer	36	5.8	Dimension 2 x 4 - 10% 2 x 6 - 50% 2 x 8 - 20% 2 x 10 - 10% Boards - 10% All rough Services Cuts to customers' specifications	Manitoba - 90% Local - 10%
FRIESEN, Klass	Box 25 Riverton, Man. R0C 2R0 378-2874	390 580 cords pulpwood	Quota WS - 59% JP - 41%	Portable sawmill 48" circular headsaw Edger	0.5	2.4	Dimension 2 x 4 - 18% 2 x 6 - 18% 2 x 8 - 5% 2 x 10 - 18% Boards - 3% Timbers 4 x 4 - 6% 6 x 6 - 12% 8 x 8 - 12% Ties - 8%	Manitoba - 77% Local - 15% E. Canada - 8%

Name	Address and Telephone	Production 1984-85 (M fbm)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
HODGSON FOREST PODUCTS	Box 322 Fisher Branch, Man. R0C 0Z0 372-6395	380 90 cords pulpwood	Purchased -55% Quota -45% WS	Portable sawmill 42" circular headsaw Planer	44	4.9	Dimension 2 x 6 - 60% 2 x 8 - 10% 2 x 10 - 10% All rough Timbers 6 x 6 - 10% 8 x 8 - 10% Services Cuts to customers' specificatons	Manitoba
JOHNSON, Valdie	Box 122 Riverton, Man. R0C 2R0 378-5543	375	Quota -55% Purchased-45% WS - 95% JP - 5%	Stationary sawmill 47" circular headsaw Planer	75	5.0	Dimension 2 x 4 - 15% 2 x 6 - 25% 2 x 8 - 25% 2 x 10 - 20% 2 x 12 - 10% Boards 1 x 4 - 5% 50% dressed, 50% rough	Local
KOVICH, John	Box 56 Park West Riverton, Man. R0C 2R0 378-5543	248	Quota JP - 80% WS - 20%	Portable sawmill 40" circular headsaw Edger	0.5	1.0	Dimension 2 x 6 - 54% 2 x 8 - 5% 2 x 10 - 4% Boards 1 x 4 - 10% 1 x 6 - 5% 1 x 8 - 2% Timbers 4 x 4 - 20% Services Custom sawing Cuts to customers' specifications	Manitoba - 80% Local - 20%

Name	Address and Telephone	Production 1984-85 (M fbm)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Market and Membership
LETEXIER, Robert	Box 382 Fisher Branch, Man. R0C 0Z0 372-6343	115	Quota SP	Portable sawmill 42" circular headsaw	0.5	2.5	Dimension 2 x 4 - 46% 2 x 6 - 44% Boards 1 x 4 - 5% 1 x 6 - 5% Services Custom sawing	Manitoba - [illegible] Local - 10%
MONTAGO FOREST PRODUCTS	Box 403 Fisher Branch, Man. R0C 0Z0 372-6949	200	Quota WS	Portable sawmill 42" circular headsaw Edger	0.5	2.8	Dimension 2 x 4 - 5% 2 x 6 - 50% 2 x 8 - 25% 2 x 10 - 5% 2 x 12 - 2% Boards - 13% Services Cuts to customers' specifications	Local
REIMER, Frank	Box 296 Riverton, Man. R0C 2R0 378-5530	100 1.3 M cords pulpwood	Quota WS	Portable sawmill 48" circular headsaw Edger	80	2.2	Dimension 2 x 6 - 60% 2 x 8 - 15% 2 x 10 - 15% Boards - 10% Services Cuts to customers' specifications	Manitoba

Name	Address and Telephone	Production 1984-85 (M fbm)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
CHEVERFILS FOREST PRODUCTS LTD.	Box 460 Pine Falls, Man. R0E 1M0 367-2905	425 2.2 M cords pulpwood	Quota -90% Purchased-10% JP - 71% TL - 25% AS - 4%	Stationary sawmill 48" circular headsaw Band resaw Euger 2 Planers Kiln	30	3.6	Dimension 2 x 4 - 20% 2 x 6 - 25% Boards 1 x 4 - 15% 1 x 6 - 18% Timbers 4 x 4 - 5% 90% dressed, 10% rough Ties - 17% Services Hardwoods, kiln-dried Cuts to customers' specifications	Manitoba - 73% E. Canada - 17% Local - 10% Member of CFPA
DYBACK, Peter	Box 934 Steinbach, Man. R0A 2A0 326-2671	569	Quota PO	Portable sawmill 48" circular headsaw	0.5	2.0	Dimension 2 x 4 - 45% 2 x 6 - 40% 2 x 8 - 10% Boards 1 x 4 - 3% 1 x 6 - 2%	Manitoba

Name	Address and Telephone	Production 1984-85 (M fbm)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
BIELIK, Peter	R.R. #1 Benito, Man. R0L 0C0 539-2097	500	Quota PO - 95% WS - 5%	Portable sawmill 48" circular headsaw Edger	2	2.3	Dimension 2 x 4 - 20% 2 x 6 - 30% 2 x 8 - 30% Boards 1 x 4 - 7% 1 x 6 - 6% 1 x 8 - 7% Services Custom sawing	Local
DE LA MARE, Ronald	Box 153 Roblin, Man. R0L 1P0 937-2867	255 600 cords pulpwood 450 cords firewood 5.0 M ft^3 posts & rails	Timber permit - 60% Private - 40% WS - 66% PO - 28% JP - 4% Other hardwoods- 2%	Stationary sawmill 48" circular headsaw 30" circular resaw Edger Gang edger Trimmer Planer	42	4.0	Dimension 2 x 4 - 19% 2 x 6 - 18% 2 x 8 - 18% 2 x 10 - 18% Boards 1 x 4 - 5% 1 x 6 - 10% 1 x 8 - 10% 45% dressed, 55% rough Timbers - 2% Fence posts - 3.0 M pieces Rails - 2.0 M pieces Services Custom sawing and planing Cuts to customers' specifications Unit strapped	Manitoba - 50% Local - 25% Saskatchewan - 25%

Name	Address and Telephone	Production 1984-85 (M fbm)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
DUBEK, Metro	R.R. #5 Grandview, Man. R0L 0Y0 546-2583	111	Quota -81% Purchased-19% WS - 86% PO - 14%	Stationary sawmill 46" circular headsaw Edger Trimmer Planer	1	0.9	Dimension 2 x 4 - 18% 2 x 6 - 22% 2 x 8 - 15% 2 x 10 - 6% Boards 1 x 4 - 13% 1 x 6 - 17% 1 x 8 - 7% 45% dressed, 55% rough Timbers - 2% Services Custom sawing	Manitoba - 56% Local - 41% Saskatchewan - 3%
FULLERTON, Bill	Box 148 Kenville, Man. R0L 0Z0 734-2696	320	Quota - 94% Purchased- 6% PO - 92% WS - 8%	Stationary sawmill 50" circular headsaw Band resaw Edger	7	2.2	Dimension 2 x 4 - 49% 2 x 6 - 27% 2 x 8 - 27% Boards - 17%	Manitoba - 91% Alberta - 9%
POYSER, Herb	Box 433 Roblin, Man. R0L 1P0 937-2624	150 110 cords pulpwood 100 cords firewood	Quota WS - 85% PO - 15%	Stationary sawmill 48" circular headsaw Edger Planer	15	1.5	Dimension 2 x 4 - 10% 2 x 6 - 37% 2 x 8 - 37% 2 x 10 - 8% 20% dressed, 80% rough Boards - 8%	Local

Name	Address and Telephone	Production 1984-85 (M fbm)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
RIEHL LUMBER AND LOGGING	Box 92 Durban, Man. ROL 0P0 539-2406	750 1.0 M cords sawlogs 850 cords pulpwood	Timber permit PO - 48% WS - 28% BS - 24%	Stationary sawmill 46,50,52" circular headsaw Scragg saw Bull edger Trimmer	15	7.5	Dimension 2 x 4 - 10% 2 x 6 - 30% Boards 1 x 4 - 7% 1 x 6 - 5% 1 x 8 - 5% Timbers 3 x 4 - 30% 3 x 6 - 1% 6 x 6 - 2% 8 x 8 - 10% Services Cuts to customers' specifications	Manitoba - 41% Saskatchewan - 30% Local - 29%
STACEY, Gary	Box 25 Benito, Man. ROL 0C0 539-2593 539-2281	200 210 cords sawlogs	Quota PO - 90% WS - 10%	Stationary sawmill 46" circular headsaw Edger	7	1.1	Dimension 2 x 4 - 3% 2 x 6 - 4% 2 x 8 - 3% Boards - 5% Timbers 7 x 9 - 25% 8 x 8 - 55% 10 x 10 - 5%	Local
STOSKI LUMBER	Box 446 Gilbert Plains, Man. ROL 0X0 548-2116 548-2855	500 1.0 M cords pulpwood	Quota WS - 90% JP - 5% PO - 5%	Stationary sawmill 54" circular headsaw Edger Planer	24	7.1	Dimension 2 x 4 - 25% 2 x 6 - 25% 2 x 8 - 22% 2 x 10 - 22% Boards - 6% 50% dressed, 50% rough Services Custom sawing	Manitoba - 50% Saskatchewan - 50%

Name	Address and Telephone	Production 1984-85 (M fbm)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
PIMICHIK-AMAC DEVELOPMENT CORP.	Box 8 Cross Lake, Man. R0B 0J0 676-2438	500	Quota WS - 50% JP - 50%	Portable sawmill 48" circular headsaw Morbark Morpac sawmill 2 Edgers Trimmer Planer	7	7.3	Dimension 2 x 4 - 15% 2 x 6 - 25% 2 x 8 - 25% 2 x 10 - 5% Boards 1 x 4 - 8% 1 x 6 - 1% 1 x 8 - 1% 30% dressed, 70% rough Timbers 3 x 4 - 10% 10 x 10 - 10%	Local - 80% Manitoba - 20% Member of CFPA

Name	Address and Telephone	Production 1984-85 (M fbm)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
CARLORNA FARMS	East Braintree, Man. R0E 0L0 426-5391	700 1.2 M cords pulpwood	Quota - 75% Private - 25% PO - 72% JP - 21% EC - 7%	Stationary sawmill 46" circular headsaw	20	6.5	Dimension 2 x 4 - 8% 2 x 6 - 6% Boards 1 x 4 - 6% 1 x 6 - 4% 1 x 8 - 3% Timbers 4 x 4 - 24% 4 x 6 - 21% 6 x 6 - 14% 8 x 8 - 14% Services Custom sawing Cuts to customers' specifications	Manitoba Member of SEQHA
CARRIERE & SONS LTD.	Box 21 R.R. #2 Ste Anne, Man. R0A 1R0 422-8497	210 10.0 M cords pulpwood	Quota WS - 50% JP - 30% BS - 20%	Portable sawmill 48" circular headsaw	0.5	24.8	Dimension 2 x 4 - 10% 2 x 6 - 25% 2 x 8 - 10% Boards 1 x 4 - 5% Timbers 4 x 4 - 50% Services Cuts to customers' specifications	Manitoba - 90% Local - 10% Member of CFPA

Name	Address and Telephone	Production 1984-85 (M fbm)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
DMYTROW, Peter	Box 28 Prawda, Man. R0E 0X0 426-5481	576	Purchased-76% Timber permit -24% PO - 78% JP - 22%	Portable sawmill 42" circular headsaw Scragg saw Edger Planer	16	3.8	Dimension 2 x 6 - 47% Boards - 8% All rough Timbers - 23% Ties - 22% Services Cuts to customers' specifications	Manitoba - 78% E. Canada - 22%
DMYTROW FOREST PRODUCTS LTD.	Box 34 Hadashville, Man. R0E 0X0 426-5366	900	Timber permit - 80% Purchased- 20% PO - 95% JP - 5%	Portable sawmill 42" circular headsaw	4	7.0	Dimension 2 x 6 - 50% 2 x 8 - 20% Boards 1 x 6 - 5% 1 x 8 - 5% Timbers - 20%	Manitoba
EASTMAN FOREST PRODUCTS	Box 4, Group 15 Anola, Man. R0E 0A0 866-3505	546	Timber permit - 54% Private - 46% JP - 84% WS - 16%	Portable sawmill 42" circular headsaw	0.5	1.3	Dimension 2 x 4 - 8% 2 x 6 - 13% 2 x 8 - 3% 2 x 10 - 3% Boards - 2% Timbers 4 x 4 - 30% 4 x 6 - 37% Ties - 4% Services Custom sawing Cuts to customers' specifications	Manitoba - 96% E. Canada - 4%

Name	Address and Telephone	Production 1984-85 (M fbm)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
EVANKEVICH LUMBER CO.	Beausejour, Man. R0E 0C0 268-2410	400	Quota PO - 80% WS - 10% AS - 10%	Portable sawmill 48" circular headsaw Scragg saw Edger 2 Planers	0.5	3.5	Dimension 2 x 4 - 28% 2 x 6 - 28% 2 x 8 - 28% Boards 1 x 4 - 6% 1 x 6 - 6% 1 x 8 - 4% 20% dressed, 80% rough Services Cuts to customers' specifications	Local
E. HOLMGREN AND SON LTD.	Sprague, Man. R0A 1Z0 437-2265 437-2023	730 10.0 M cords pulpwood	Quota - 90% Purchased- 10% WS - 40% JP - 35% PO - 25%	Stationary sawmill 12' bandsaw headrig Planer	70	32.2	Dimension 2 x 4 - 25% 2 x 6 - 15% Boards 1 x 5 - 60% 75% dressed, 25% rough	Midwestern USA Member of CFPA SEQHA
KURIAN CONSTRUCTION LTD.	Box 41 Elma, Man. R0E 0Z0 348-2526	500	Quota JP - 80% WS - 20%	Stationary sawmill 44" circular headsaw	75	12.5	Dimension 2 x 4 - 20% Boards 1 x 2 - 10% Timbers 3 x 4 - 20% 4 x 5 - 20% 6 x 6 - 30%	Local - 50% Manitoba - 50% Member of CFPA

Name	Address and Telephone	Production 1984-85 (M fbm)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
KUZ WOODWORK INDUSTRIES LTD.	Box 29 Hadashville, Man. R0E 0X0 426-5250	154	Quota -87% Purchased-13% JP - 54% PO - 46%	Stationary sawmill 44" circular headsaw Planer	10	0.8	Boards - 10% All rough Timbers 3 x 3 - 27% 4 x 4 - 27% 6 x 6 - 36% Services Cuts to customers' specifications	Local
LABBEE, Raymond	Box 74 Elma, Man. R0E 0Z0 348-2684	220 300 cords pulpwood	Quota - 80% Private - 20% PO - 60% JP - 40%	Portable sawmill 38" circular headsaw	0.5	2.6	Timbers Services Custom sawing Cuts to customers' specifications	Manitoba
LABBEE, Wilfred	Box 9 Whitemouth, Man. R0E 2G0 348-2930	100	Quota PO - 80% JP - 20%	Portable sawmill 42" circular headsaw 48" scragg headsaw	0.5	0.5	Boards - 9% Timbers - 83% Ties - 8% Services CUSTOM SAWING ONLY	Local - 92% E. Canada - 8%
MARDYNALKA, John and Sons	Box 8 Hadashville, Man. R0E 0X0 426-5544	942 400 cords pulpwood	Quota JP	Portable sawmill 48" scragg headsaw 50" circular headsaw Double arbor edger Slasher	0.5	15.5	Dimension 2 x 4 - 42% 2 x 5 - 14% 2 x 6 - 38% Boards 1 x 6 - 2% Ties - 4% Services Cuts to customers' specifications	Manitoba - 96% E. Canada - 4% Member of SEQHA

Name	Address and Telephone	Production 1984-85 (M fbm)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
JOHN LEPTICK SAWMILL LTD.	Cranberry Portage, Man. R0B 0H0 472-3243	670 500 cords pulpwood	Quota WS - 50% JP - 48% BF - 2%	Portable sawmill 48" circular headsaw Edger Trim saw Planer	6	7.8	Dimension 2 x 4 - 22% 2 x 6 - 19% 2 x 8 - 16% 2 x 10 - 7% Boards 1 x 4 - 12% 1 x 6 - 12% 1 x 8 - 6% Timbers - 6% 85% dressed, 15% rough Services Custom sawing and planing	Local - 53% Manitoba - 38% Saskatchewan - 9% Member of CFPA

SAWMILL-PLANING COMPLEXES

LESS THAN 100 M FBM

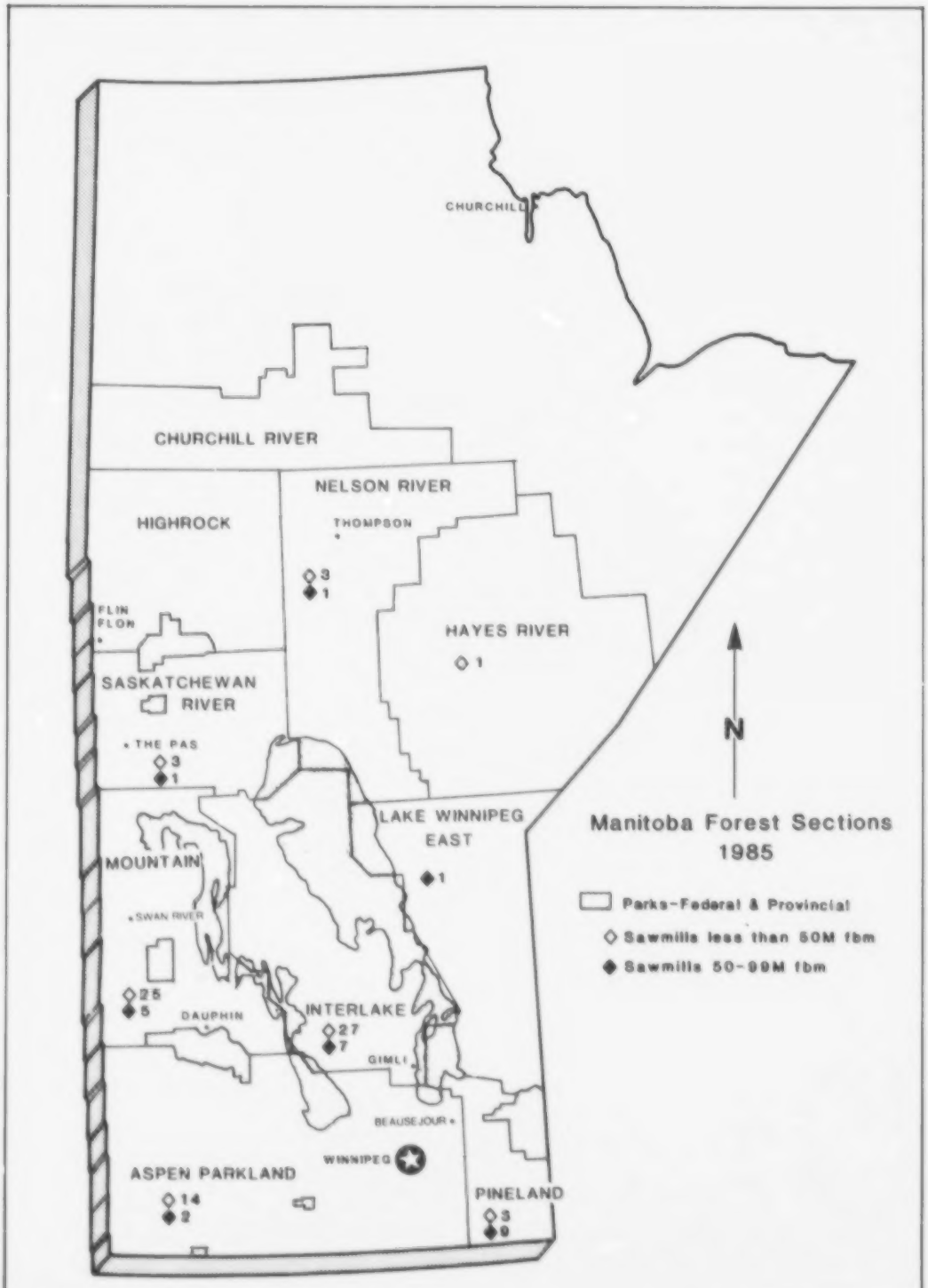

Figure 4. Number of sawmills producing less than 100M fbm per year.

Table 1. Sawmills producing less than 100M fbm

Manitoba Forest Section	Number of Firms	Production in M fbm
Aspen Parkland	16	377
Churchill River	-	-
Hayes River	1	20
Highrock	-	-
Interlake	34	1,126
Lake Winnipeg East	1	90
Mountain	30	750
Nelson River	4	156
Pineland	12	703
Saskatchewan River	4	86
Total	102	3,308

Forest Section: ASPEN PARKLAND

Name	Address	Production	
		50 M fbm to 99 M fbm	Less than 50 M fbm
Balan, Mel	Olha, Man. R0J 1K0	X	
Brown, Gordon	Riding Mountain, Man. R0J 1T0		X
Cathcart, Gill	RR#1, Deloraine, Man. R0M 0M0		X
Dalgleish, E.G.	Riding Mountain, Man. R0J 1T0		X
Dotremont, Joseph	St. Pierre, Man. R0A 1V0		X
Friesen, John N.	Steinbach, Man. R0A 2A0		X
Griffiths, K. & Gawiuk, R.	Box 123, Onanole, Man. R0J 1N0		X
Jones, Owen	RR#1, Deloraine, Man. R0M 0M0		X
Kohinski, L. & Jasper, W.	Box 38, Birnie, Man. R0J 1J0	X	
Labay, Edward	Menzie, Man. R0J 1C0		X
Mercier, Celestin	Anola, Man. R0E 0A0		X
Nylen Farms	Erickson, Man. R0J 0P0		X
Sachvie, Jacob	Box 9, Group 30, RR#4, Beausejour, Man. R0E 0C0		X
Unger, Ben	Box 233, Steinbach, Man. R0A 2A0		X
Vertz, Edward	Glenboro, Man. R0K 0X0		X
Wiebe, John	Landmark, Man. R0A 0X0		X

Forest Section: HAYES RIVER

Name	Address	Production	
		50 M fbm to 99 M fbm	Less than 50 M fbm
Badiuk, Gordon	Garden Hill, Man.		X

Forest Section: INTERLAKE

Name	Address	Production	
		50 M fbm to 99 M fbm	Less than 50 M fbm
Blahey, Steve	Box 652, Arborg, Man. R0C 0A0		X
Bonwick, D. & Bauch, D.	Box 39, Moosehorn, Man. R0C 2E0	X	
Borsa, Jim	St. Martin, Man. R0G 2T0		X
Delude, Leo	Fisher Branch, Man. R0C 0Z0		X
Dreager, Albert	Moosehorn, Man. R0C 2E0		X
Duff, Dennis	Box 277, Pine Falls, Man. R0E 1M0		X
Egesz, Paul	Box 412, Riverton, Man. R0C 2R0		X
Grouch, Ralph	Box 187, Hodgson, Man. R0C 1N0		X
Hammond, David	Box 129, Arnes, Man. R0C 0C0		X
Harlos, Henry	Grahamdale, Man. R0C 1C0		X
Helgason, G.A.	Box 54, Arnes, Man. R0C 0C0		X
Holt, Charlie	Waterhen, Man. R0L 2C0		X
Hryhorchuk, Anthony (Park North Construction Ltd.)	Box 458, Riverton, Man. R0C 2R0		X
Iverson, Gary	Hilbre, Man. R0C 1L0		X
Janower, Nick	Box 264, Arborg, Man. R0C 0A0		X
Koch, Kenneth	Grahamdale, Man. R0C 1C0		X
Manningway, Campbell	Dallas, Man. R0C 0S0		X

Forest Section: INTERLAKE

Name	Address	Production	
		50 M fbm to 99 M fbm	Less than 50 M fbm
Marcyniuk, Jerry	Dallas, Man. R0C 0S0		X
Marcyniuk, John	Box 24, Hodgson, Man, R0C 1N0		X
Matheson Island Community Council	Matheson Island, Man. R0C 2A0	X	
McClinton, Wayne	Arborg, Man. R0C 0A0		X
Mikula, Andrew	Mulvihill, Man. R0C 2G0		X
Nagy, Lewis	Arnes, Man. R0C 0C0	X	
Orzech, Phillip	Riverton, Man. R0C 2R0	X	
Peguis Indian Band	Box 219, Hodgson, Man. R0C 1N0	X	
Potter, Leslie	Hilbre, Man. R0C 1L0		X
Price, Graham and Victor	Ashern, Man. R0C 0E0	X	
Stefanson, Baldur	Box 615, Arborg, Man. R0C 0A0		X
Tanchuk, Morris	Box 185, Fisher Branch, Man. R0C 0Z0		X
Trudeau, Robert	Waterhen, Man. R0L 2C0		X
Trumbla, Harry	Waterhen, Man. R0L 2C0		X
Truthwaite, Robert	Box 10, Hodgeson, Man. R0C 1N0		X
Vandersteen, William	Fisher Branch, Man. R0C 0Z0		X
Zagrodnik, Lorne	Fisher Branch, Man. R0C 0Z0	X	

Forest Section: LAKE WINNIPEG EAST

Name	Address	Production	
		50 M fbm to 99 M fbm	Less than 50 M fbm
Zirk, L. and M.	Stead, Man. R0E 1Z0 (Operations - Bissett)	X	

Forest Section: MOUNTAIN

Name	Address	Production	
		50 M fbm to 99 M fbm	Less than 50 M fbm
Andreychuk, Nick	Pine River, Man. R0L 1M0		X
Boychuk, William	Cowan, Man. R0L 0L0		X
Brown, Stanley	Durban, Man. R0L 0P0	X	
Chescu, George	Inglis, Man. R0J 0X0		X
Dudar, Harold	Box 210, Ethelbert, Man. R0L 0T0	X	
Garneau, Gaeton	Pine River, Man. R0L 1M0		X
Graham, Wayne	Box 254, Bowsman, Man. R0L 0H0		X
Halabiski, Walter	Ethelbert, Man. R0L 0T0		X
Harapiak, Stanley	Gilbert Plains, Man. R0L 0X0		X
Harrison, Dennis	RR#4, Grandview, Man. R0L 0Y0		X
Hay, Robert A.	Minitonas, Man. R0L 1G0		X
Hnatiuk, Alex	Gilbert Plains, Man. R0L 0X0		X
Hogg, Bruce	RR#1, Swan River, Man. R0L 1Z0		X
Inkster, Darrel	Dauphin, Man. R0A 1M4		X
Kostiuk, Mike	Box 157, Pine River, Man. R0L 1M0	X	
Marchenski, Steve	Winnipegosis, Man. R0L 2G0		X
Matwee, Mike	RR#1, Winnipegosis, Man. R0L 2G0		X
Moriaux, Germain	Ste. Rose du Lac, Man. R0L 1S0		X
Pachkowski, Fred and Sam	Dauphin, Man. R9A 1M4		X

Forest Section: MOUNTAIN

Name	Address	Production	
		50 M fbm to 99 M fbm	Less than 50 M fbm
Puchailo, Mike	Gilbert Plains, Man. R0L 0X0		X
Radford, Gerald	RR#1, Durban, Man. R0L 0P0		X
Shoal River Sawmill Project	Pelican Rapids, Man. R0L 1L0		X
Shumka, Matt	RR#1, Gilbert Plains, Man. R0L 0X0	X	
Simpson, George	Box 45, Bowsman, Man. R0L 0H0		X
Sklar, Mike	Box 73, Rorketon, Man. R0L 1R0		X
Stratuliak, Nestor	Ethelbert, Man. R0L 0T0		X
Thompson, Jack	Birch River, Man. R0L 0E0		X
Williamson, Harley	Westgate, Man. R0L 2E0	X	
Wychopen, Mike	Box 343, Roblin, Man. R0L 1P0		X
Zander, Rune	RR#1, Durban, Man. R0L 0P0		X

Forest Section: NELSON RIVER

Name	Address	Production	
		50 M fbm to 99 M fbm	Less than 50 M fbm
Chernick, Bill	Norway House, Man. R0B 1B0		X
Cross Lake Indian Band	Cross Lake, Man. R0B 0J0		X
Nelson House Loggers	Nelson House, Man. R0B 1A0	X	
Pikwitonei Loggers Association	Pikwitonei, Man. R0B 1E0		X

Forest Section: PINELAND

Name	Address	Production	
		50 M fbm to 99 M fbm	Less than 50 M fbm
Andrusiak, John A.	Sundown, Man. R0A 2C0	X	
Bear River Timber Co Ltd.	Box 681, Powerview, Man. R0E 1P0		X
Bradley, Ralph	Middleboro, Man. R0A 1B0	X	
Chatel, Marcel	Woodridge, Man. R0A 2N0	X	
Funk, John	RR#1, Richer, Man. R0E 1S0	X	
Gobeil, Andre	South Junction, Man. R0A 1Y0	X	
Gottwald & Sons Ltd.	South Junction, Man. R0A 1Y0	X	
Guimond, Marc	Box 245, Powerview, Man. R0E 1P0	X	
Hinze, Lawrence	Vassar, Man. R0A 2J0	X	
Ryback, Peter	Janow, Man. R0E 0Z0		X
Turchyn, Mike P.	Hadashville, Man. R0E 0X0		X
Weslak, Frank and Stanley	Hadashville, Man. R0E 0X0	X	

Forest Section: SASKATCHEWAN RIVER

Name	Address	Production	
		50 M fbm to 99 M fbm	Less than 50 M fbm
Egg Lake Rehabilitation Camp	Box 659, The Pas, Man. R9A 0K0		X
McKinnon, Charlie	Wanless, Man. R0B 1T0	X	
Thrones, Olaf	Wanless, Man. R0B 1T0		X
Vickery, Roy	The Pas, Man. R9A 0K0		X

INDEPENDENT PLANING MILLS

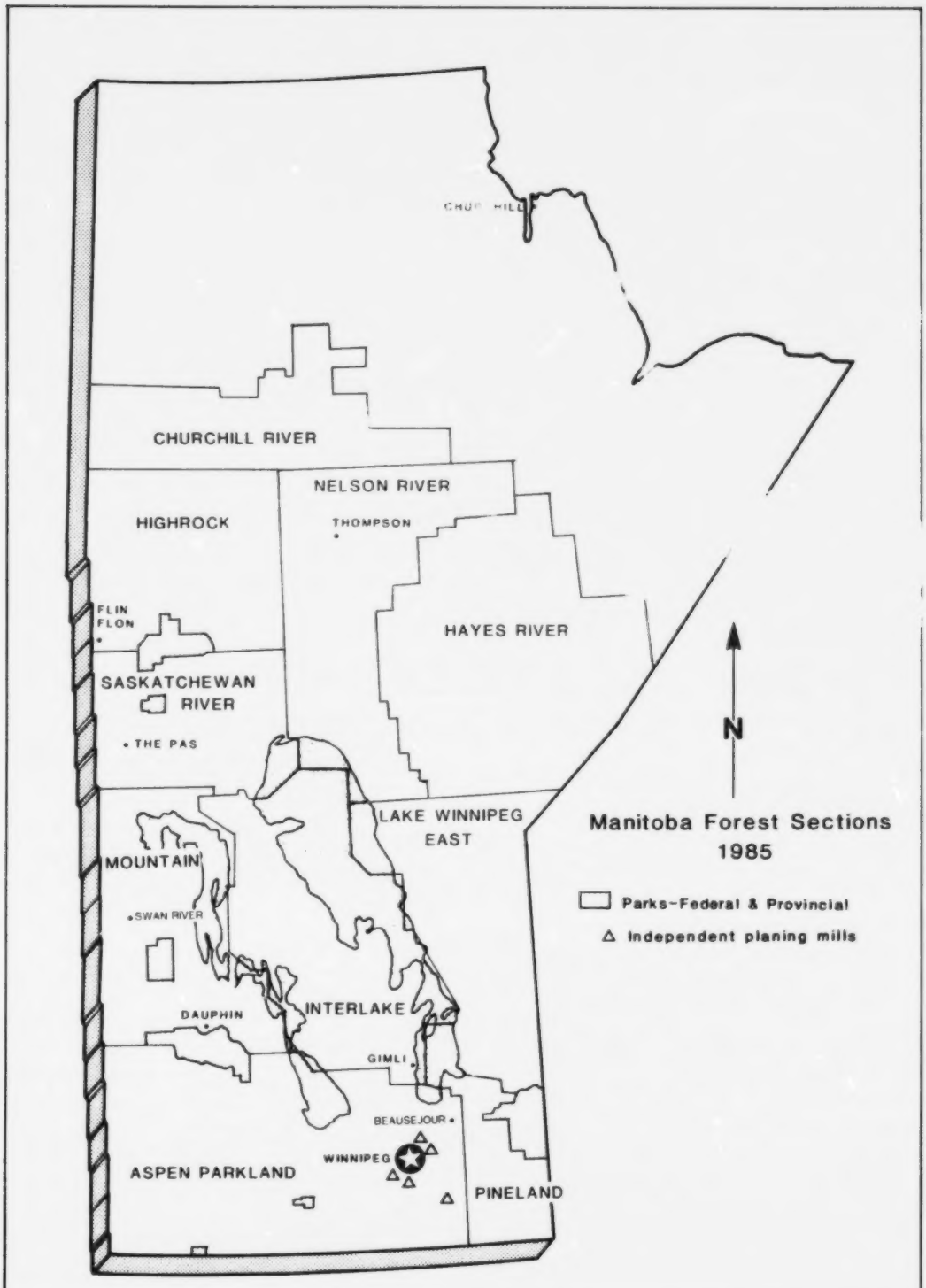

Figure 5. Location of independent planing mills.

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Independent Planing Mills

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BROWN AND RUTHERFORD

ADDRESS:	#5 Sutherland Avenue Winnipeg, Manitoba R2W 3R4
TELEPHONE:	942-0701
MILL LOCATION:	Winnipeg, Manitoba
OWNERS:	Silpit Industries Ltd.
MILL MANAGEMENT:	Jack Gutkin, President and General Manager Murray Rutherford, Assistant General Manager Peter Diakiw, Sales Manager Barry Schmidt, Sales Manager Brian Day, Product Supervisor Matthew Michalchuk, Controller
MILL CAPACITY:	20 M fbm/8 hr shift
PRODUCTION 1984-85:	5.0 MM fbm
PRODUCTS:	Molding - 50% Panelling - 25% Siding - 20% Custom planing - 5%
SPECIES UTILIZED:	Western red cedar - 45% Oak - 25% PO - 20% Other conifers - 10%
WOOD SUPPLY:	Purchased lumber Imported - 75% Local - 25%
AVERAGE LUMBER HAUL TO MILL:	600 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1965
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	PLANING MILL: 14 J F M A M J J A S O N D SALES/OFFICE: 2 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Truck - 80% Rail (CNR) - 20% PRODUCTS: Truck - 95% Rail (CNR) - 5%
MARKETS:	Manitoba - 75% Alberta - 10% Ontario - 10% Saskatchewan - 5%

BROWN AND RUTHERFORD
(continued)

SPECIAL SERVICES:	Custom millwork, wholesale and retail lumber outlet
MEMBERSHIPS:	Winnipeg Construction Association Architectural Woodwork, Millwork Association Manitoba Millwork Contractors' Assocation
ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro
USAGE OF WOOD RESIDUES:	Shavings, sawdust, trim ends - no use
MILL FACILITIES/EQUIPMENT:	Stationary planing mill 1 - Yates 91A planer 1 - Yates band resaw 1 - Surfacer 2 - Watkins stickers (moulders) 1 - Multiple rip saw 1 - Watkins cut off saw 1 - Jointer 1 - Holz-Her edge bander 1 - Holz-Her panel saw 1 - Staining machine
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Market fluctuations
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$200,000
FOREST SECTION:	Aspen Parkland

DYCKS CONTAINERS AND FOREST PRODUCTS LTD.

ADDRESS:	305 McKay Avenue Winnipeg, Manitoba R2G 0N5
TELEPHONE:	339-1994
MILL LOCATION:	Winnipeg, Manitoba
OWNERS:	John Dyck
MILL MANAGEMENT:	John Dyck, President Rudolf Dyke, Vice-President, Secretary-Treasurer Harold Dyck, Manager
MILL CAPACITY:	60 M fbm/8 hr shift
PRODUCTION 1984-85:	4.8 MM fbm
PRODUCTS:	Planes lumber and remanufactures: Pallets - 35% Boxes - 35% Bed frames - 30%
SPECIES UTILIZED:	PO - 50% WS - 40% JP - 10%
WOOD SUPPLY:	Purchased lumber: Imported - 55% Manitoba - 45%
AVERAGE LUMBER HAUL WOODS TO MILL:	75 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1935
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	PLANING MILL: 15 J F M A M J J A S O N D OFFICE: 5 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Truck - 80% Rail (CNR) - 20% PRODUCTS: Truck
MARKETS:	Manitoba - 60% Midwestern USA - 20% Saskatchewan - 10% Ontario - 10%
SPECIAL SERVICES:	Custom resawing and planing, manufactures pallets, wooden boxes, wooden crates, furniture stock
MEMBERSHIPS:	Central Forest Products Association Canadian Wood Pallet and Container Association

DYCKS CONTAINERS AND FOREST PRODUCTS LTD.
(continued)

ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro Natural gas - heating
USAGE OF WOOD RESIDUES:	Shavings - agricultural use Sawdust - industrial use
MILL FACILITIES/EQUIPMENT:	Stationary planing mill 2 - Resaws 1 - Berlin planer 1 - Yates planer 1 - 2-S Planer 3 - Newman KM cut off saws 10 - Morgan nailing machines 1 - FMC nailing machine 1 - Viking automatic nailing system 1 - Stringer notcher 1 - Chamfer machine 1 - Hammer mill 1 - Crusher mill 4 - Clark forklifts 1 - Cat forklift
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Market fluctuations
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$1,000,000
FOREST SECTION:	Aspen Parkland

PAUL HENZEL LUMBER LTD.

ADDRESS:	1236 Brockville Street Winnipeg, Manitoba R0G 0R0
MAILING ADDRESS:	Box 5 Fort Whyte, Manitoba R0G 0R0
TELEPHONE:	452-3720
MILL LOCATION:	Winnipeg, Manitoba
OWNERS:	Paul Henzel
MILL MANAGEMENT:	Paul Henzel, President Stuart Vernon, Vice-President and General Manager Gerry Henzel, Secretary-Treasurer
MILL CAPACITY:	40 M fbm/8 hr shift
PRODUCTION 1984-85:	12.5 MM fbm
PRODUCTS:	Dimension lumber: 2 x 4 - 21% 2 x 6 - 21% 2 x 8 - 10% 2 x 10 - 10% 2 x 12 - 8% Board lumber: 1 x 4 - 12% 1 x 6 - 12% 1 x 8 - 6% Random lengths, dressed and kiln dried
PRODUCTS BY GRADE:	Stud grade - 35% Economy - 30% Construction - 27% Standard - 8%
SPECIES UTILIZED:	JP - 35% PO - 20% Other conifers - 43% Other hardwoods - 2%
WOOD SUPPLY:	Purchased lumber: Manitoba - 55% Imported - 45%
AVERAGE LUMBER HAUL WOODS TO MILL:	300 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1973

PAUL HENZEL LUMBER LTD.
(continued)

AVERAGE EMPLOYMENT MONTHS OF OPERATION:	PLANING MILL: 9 J F M A M J J A S O N D SALES/OFFICE: 2 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Truck - 55% Rail (CNR) - 45% PRODUCTS: Truck
MARKETS:	Manitoba - 75% Midwestern USA - 25%
SPECIAL SERVICES:	Custom planing, resawing and remanufacturing
MEMBERSHIPS:	Central Forest Products Association Forintek Canada Corp.
MILL STAMP:	CFPA #32
ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro
USAGE OF WOOD RESIDUES:	Shavings - agricultural use
MILL FACILITIES/EQUIPMENT:	Stationary planing mill 1 - Alco planer 1 - Yates 91 planer 1 - Berlin resaw 1 - 24" thickness planer 1 - Precision end trim saw 1 - Cut off saw 2 - Clark forklifts 1 - Ford front end loader 2 - GMC 2-ton stake trucks
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Wood supply, market fluctuations
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$400,000
FOREST SECTION:	Aspen Parkland

PERIMETER LUMBER CO.

ADDRESS:	c/o Finmac Lumber Ltd. Box 105 Winnipeg, Manitoba R3C 2G1
TELEPHONE:	786-7694 261-4646 (mill)
MILL LOCATION:	Oak Bluff, Manitoba
OWNERS:	Finmac Lumber Ltd.
MILL MANAGEMENT:	Wayne Schlamb, General Manager
MILL CAPACITY:	15 M fbm/8 hr shift
PRODUCTION 1984-85:	6 MM fbm
PRODUCTS:	Furniture stock 1 inch - 60% 2 inch - 40%
PRODUCTS BY GRADE:	National Hardwood Lumber Grade #1 and Better - 40% Lower grades - 60%
SPECIES UTILIZED:	Oak - 30% E - 20% AS - 20% Other conifers - 30%
WOOD SUPPLY:	Purchased lumber Imported - 90% Manitoba - 10%
AVERAGE LUMBER HAUL WOODS TO MILL:	600 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1980
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	PLANING MILL: 14 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Truck PRODUCTS: Truck - 95% Rail (CNR)/ship - 5%
MARKETS:	Ontario - 30% Manitoba - 25% Alberta - 20% Saskatchewan - 10% Midwestern USA - 10% Europe - 5%

PERIMETER LUMBER CO.
(continued)

SPECIAL SERVICES:	Resawing and planing to customers' specifications
MEMBERSHIPS:	Canadian Lumbermen's Association National Hardwood Association
ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro Kilns - Hog fuel
USAGE OF WOOD RESIDUES:	Shavings - hog fuel Edging and trim - firewood
MILL FACILITIES/EQUIPMENT:	Stationary planing mill 1 - Robinson band resaw 1 - Abrasive planer 1 - Planer 1 - Trim saw assembly 1 - Dehumidifier kiln - 250 M fbm/charge
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Market fluctuations
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$450,000
FOREST SECTION:	Aspen Parkland

SOUTH-EAST FOREST PRODUCTS LTD.
(Blumenort)

ADDRESS:	Blumenort, Manitoba R0A 0C6
TELEPHONE:	452-6118 - Winnipeg direct number 326-1341 - Blumenort
MILL LOCATION:	Blumenort, Manitoba
OWNERS:	South-East Forest Products Ltd.
MILL MANAGEMENT:	Abe Penner, General Manager Randy Penner, Mill Manager Peter Wiebe, Transportation, Maintenance Manager
MILL CAPACITY:	50 M fbm/8 hr shift
PRODUCTION 1984-85:	10.2 MM fbm
PRODUCTS:	Dimension lumber: 2 x 4 - 20% 2 x 6 - 24% 2 x 8 - 10% 2 x 10 - 24% Boards - 20% Timbers - 2% Random lengths, dressed, 95% kiln dried
PRODUCTS BY GRADE:	#2 and better - 85% #3 - 8% Economy - 7%
SPECIES UTILIZED:	JP - 50% WS - 50%
WOOD SUPPLY:	Quota - 90% Purchased - 10% Lumber supplied by South-east Forest Products' sawmills and other Manitoba sawmills
AVERAGE LUMBER HAUL WOODS TO MILL:	270 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1977
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	PLANING MILL: 12 J F M A M J J A S O N D SALES/OFFICE: 2 J F M A M J J A S O N D

SOUTH-EAST FOREST PRODUCTS LTD.
(Blumenort, continued)

TRANSPORTATION:	INPUTS: Truck PRODUCTS: Truck
MARKETS:	Midwestern USA - 65% Manitoba - 25% Local - 10%
SPECIAL SERVICES:	Lumber dressed to customers' specifications, precision end trimmed, unit strapped, graded, end coated, and poly under first tier. Wholesale and retail lumber yard.
MEMBERSHIPS:	Central Forest Products Association Forintek Canada Corp.
MILL STAMP:	CFPA #38
ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro Natural Gas - Inter City Gas
USAGE OF WOOD RESIDUES:	Shavings - 80% insulation material, 10% industrial use, 10% agricultural use
MILL FACILITIES/EQUIPMENT:	Stationary planing mill 1 - Hallmark band resaw 1 - Yates A20 planer 1 - Trim saw assembly 1 - Dry kiln, 40 M fbm/charge 2 - 580 Case loaders
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Distance from wood supply
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$650,000
FOREST SECTION:	Aspen Parkland

WOOD TREATING PLANTS

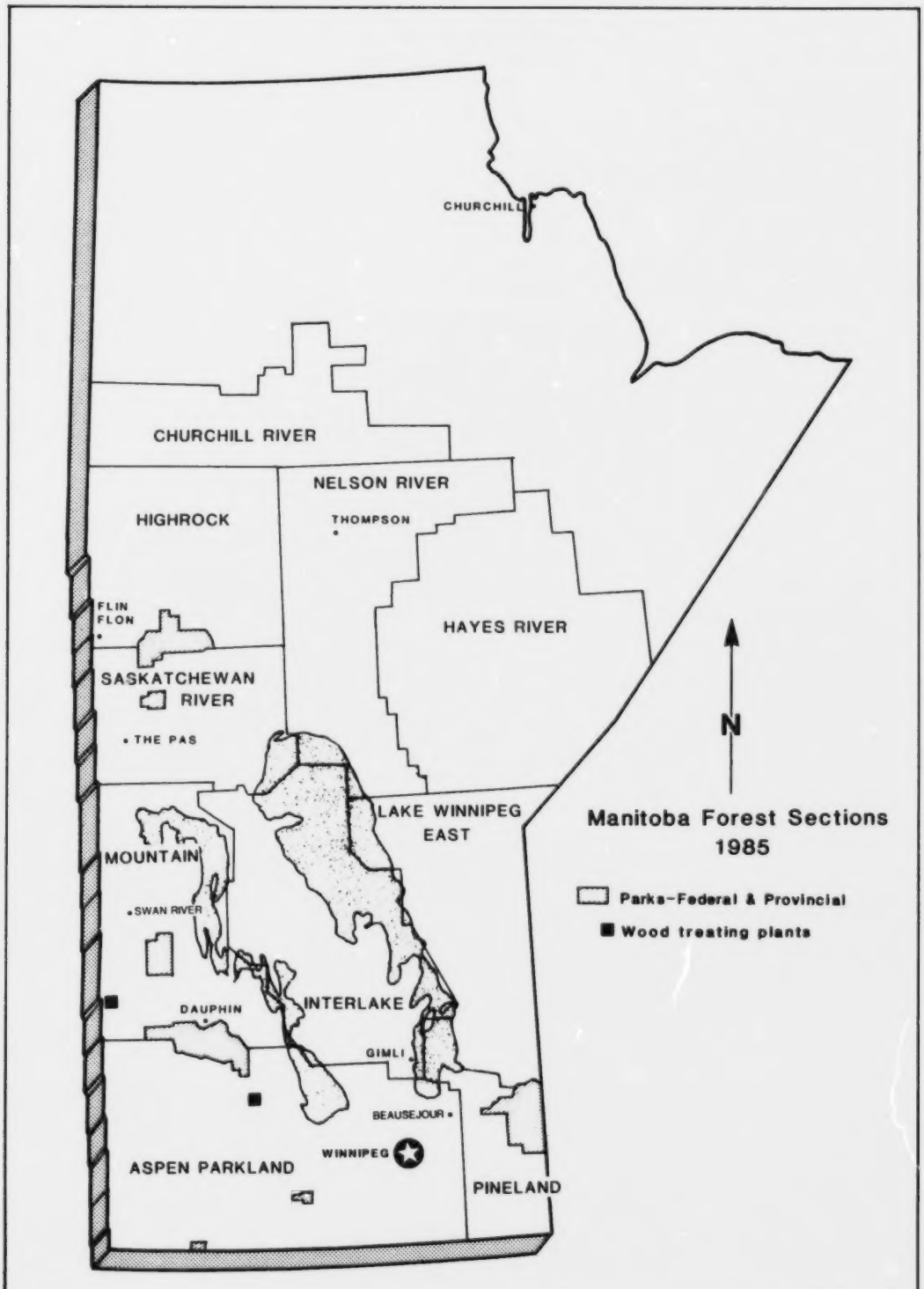

Figure 6. Location of wood treating plants.

PRENDIVILLE WOOD PRESERVERS
(Division of Prendiville Industries Ltd.)

ADDRESS:

165 Ryan Street
Winnipeg, Manitoba
R2R 0N9

or

Box 279
Neepawa, Manitoba
R0J 1H0

TELEPHONE:

633-7238 - Winnipeg
476-3338 - Neepawa

PLANT LOCATION:

Treating plant - Neepawa, Manitoba
Post peeling yard - Birch River, Manitoba

OWNERS:

Prendiville Industries Ltd.

WOODLANDS MANAGEMENT:

Jack Thompson, Woodlands Manager

PLANT MANAGEMENT:

Lawrence Prendiville, Managing Director
Richard Knechtel, Production Manager
Merv Bohn, Sales Manager

PLANT CAPACITY:

Wood treating plant - 50 M fbm/8 hr shift
Post peeling operation - 6,000 posts/8 hr shift

PRODUCTION 1984-85:

4.6 MM fbm treated lumber
382.5 M ft^3 treated stock

PRODUCTS:

Treated lumber: 2 x 4 - 10%
2 x 6 - 25%
2 x 8 - 35%
80% dressed, 20% rough

Timbers - 20%

Wood Foundation Material - 10%

Treated stock:
Fence posts - 200 M pieces - 50%
Hydro poles - 12 M pieces - 35%
Barn poles - 7 M pieces - 5%
Custom treated material - 10%

PRESERVATIVES USED:

Chromated copper arsenate (CCA) and water mix

SPECIES UTILIZED:

JP - 98%
RP - 2%

PRENDIVILLE WOOD PRESERVERS
(Division of Prendiville Industries Ltd., continued)

WOOD SUPPLY:	Purchased lumber: Manitoba Treated Stock: Quota - 55% Purchased - Manitoba - 25% - Imported - 20%
AVERAGE LOG HAUL WOODS TO PLANT:	220 miles
YEAR PLANT WAS CONSTRUCTED OR REBUILT:	1972
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	WOODLANDS: Contract - 9.5 J F M A M J J A S O N D POST PEELING OPERATION: 9 J F M A M J J A S O N D TREATING PLANT: 12 J F M A M J J A S O N D SALES/OFFICE: 2 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Truck PRODUCTS: Truck
MARKETS:	Manitoba - 70% Midwestern USA - 20% Saskatchewan - 5% Ontario - 5%
SPECIAL SERVICES:	Custom pressure treating, kiln drying and staining; notching, drilling, incising; unit strapped; supplies CCA Wolmanized treated products
MEMBERSHIPS:	American Wood Preservers' Association Canadian Institute of Treated Wood Canadian Wood Council Central Forest Products Association Forintek Canada Corp.
ENERGY SUPPLY FOR PLANT:	Electricity - Manitoba Hydro Natural Gas - Inter City Gas
USAGE OF WOOD RESIDUES:	Sawdust - agricultural use Bark - agricultural use
WOODLANDS EQUIPMENT:	2 - Morbark peelers 1 - Slasher 1 - Skidder 2 - Loaders

PRENDIVILLE WOOD PRESERVERS
(Division of Prendiville Industries Ltd., continued)

PLANT FACILITIES/EQUIPMENT:	1 - 100' x 7' pressure treating tank 1 - 36' x 5' pressure treating tank 1 - Dry kiln, 100 M fbm/charge 1 - Pole peeler 2 - Loaders
LIMITING FACTORS FOR OPERATION AND EXPANSION:	None
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$1,500,000
FOREST SECTION:	Aspen Parkland

ROBLIN FOREST PRODUCTS LTD.

ADDRESS:	Box 819 Roblin, Manitoba R0L 1P0
PLANT LOCATION:	Roblin, Manitoba
PLANT CAPACITY:	Wood treating plant - 1.2 M ft^3/8 hr shift Post peeling operation - 4,000 posts/8 hr shift
PRODUCTION 1984-85:	250 M fbm treated lumber 211 M ft^3 treated stock
PRODUCTS:	Treated timbers: 4 x 4 - 40% 4 x 6 - 40% 6 x 6 - 20% Treated stock: Poles - 12.8 M pieces - 20% Fence posts - 171 M pieces - 80%
PRESERVATIVES USED:	Chromated copper arsenate and water mix
SPECIES UTILIZED:	JP
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	TREATING PLANT: 2 - - - A M J J A S - - - PEELING PLANT: 6 J F M A M J J A S - - -
SPECIAL SERVICES:	Custom pressure treating
MILL FACILITIES/EQUIPMENT:	Treating plant 1 - 60" x 40' pressure tank 1 - 60" x 38' pressure tank Post/pole peeling plant 1 - Morbark peeler 1 - Forano peeler 1 - Morbark sharpener
FOREST SECTION:	Mountain

For details see Roblin Forest Products Ltd., page 49.

PULP, PAPER AND FIBERBOARD MILLS

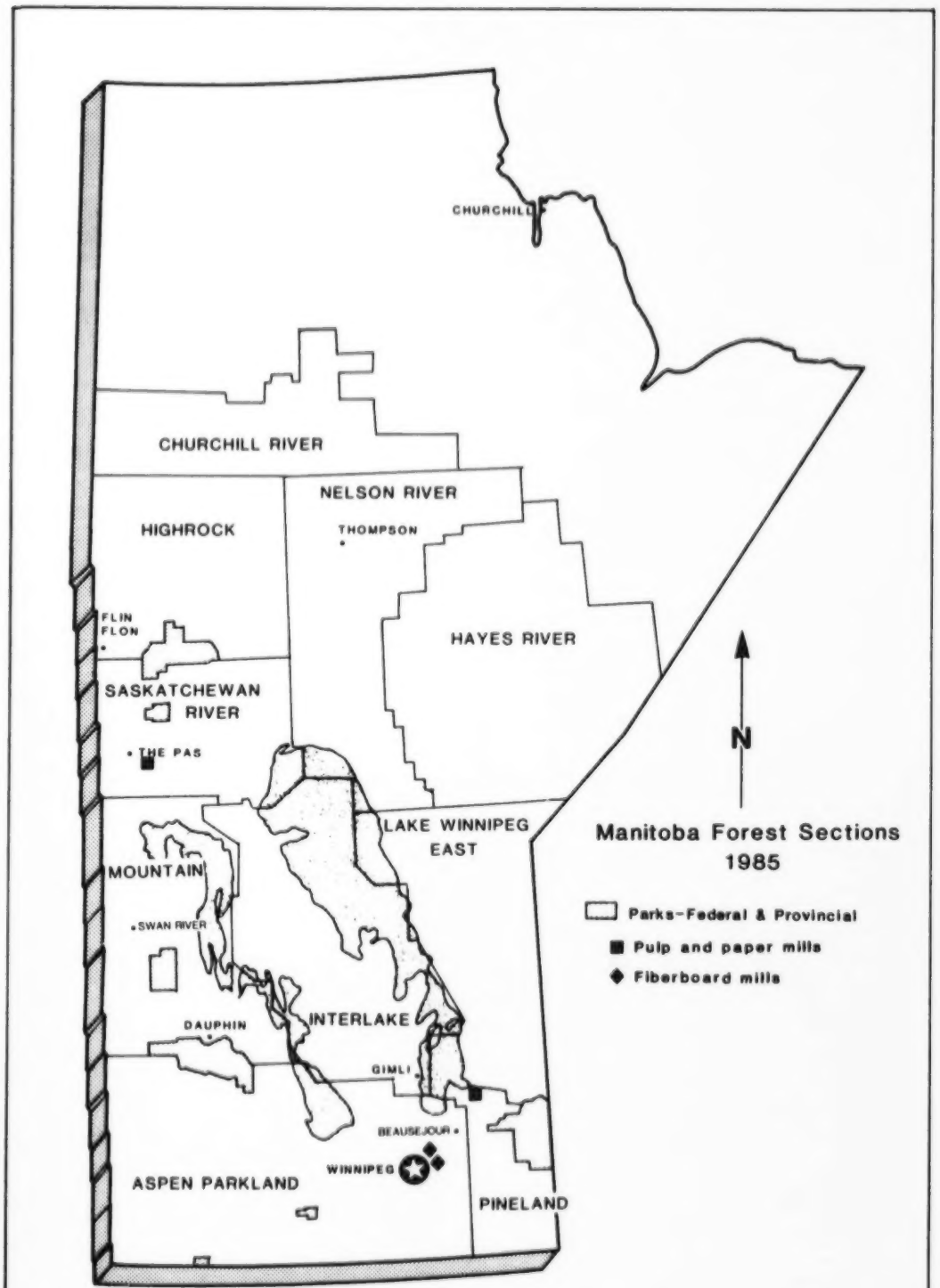

Figure 7. Location of pulp, paper and fiberboard plants.

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Pulp, Paper and Fiberboard Mills

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ABITIBI PRICE INC.

ADDRESS:	Box 10 Pine Falls, Manitoba R0E 1M0
TELEPHONE:	367-2421
MILL LOCATION:	Pine Falls, Manitoba
OWNERS:	Abitibi Price Inc.
WOODLANDS MANAGEMENT:	Brock Bartlett, Woodlands Manager (retiring May 1986) David Chown, Woodlands Manager
MILL MANAGEMENT:	Bruce Hansen, Mill Manager
MILL CAPACITY:	535 tons/day
PRODUCTION 1984-85:	181.0 M tons
PRODUCTS:	Newsprint
SPECIES UTILIZED:	WS - 47% BS - 28% JP - 20% BF - 5%
WOOD SUPPLY:	Purchased - 75% Negotiated agreement - 25%
AVERAGE LOG HAUL WOODS TO MILL:	200 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1928
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	WOODLANDS: Contract - 400 J F M - M J J - - O - D Own - 90 J F M A M J J A S O N D PULP/PAPER MILL: 425 J F M A M J J A S O N D SALES/OFFICE: 30 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Truck - 75% Rail (CNR) - 15% Water (barge) - 10% PRODUCTS: Rail (CNR) - 80% Truck - 20%

ABITIBI PRICE INC.
(continued)

MARKETS:	Midwestern USA - 70% Manitoba - 20% Saskatchewan - 5% Alberta - 5%
SPECIAL SERVICES:	Packaged
MEMBERSHIPS:	Canadian Pulp and Paper Association Canadian Manufacturers' Association Central Forest Products Association Pulp and Paper Research Institute of Canada
ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro Steam heat - self generated
USAGE OF WOOD RESIDUES:	Bark - hog fuel for energy conversion
WOODLANDS EQUIPMENT:	20 - Clark skidders 5 - Caterpillar crawlers 2 - Nesco slashers
MILL FACILITIES/EQUIPMENT:	Pulp and paper mill 1 - 3-chain jack ladder 3 - Debarking drums 1 - Summer chipper 14 - Continuous grinders 2 - Dominion Bridge digestors 2 - Beloit fourdrinier 2 - Calenders 2 - Beloit winders 7 - Bauer refiners 3 - Sprout Waldron refiners 9 - Groundwood screens 3 - Sulphite screens 3 - Mixed stock screens 15 - Vacuum filters 4 - Boilers 1 - Clarifier
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Investment capital, market fluctuations
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$300,000,000
FOREST SECTION:	Pineland

GATEWAY INDUSTRIES LTD.

ADDRESS:	782 Main Street Winnipeg, Manitoba R2W 3N4
TELEPHONE:	589-5311
TELEX:	07-57784
MILL LOCATION:	Winnipeg, Manitoba
OWNERS:	Gateway Industries Ltd.
MILL MANAGEMENT:	Sheldon Blank, President Merv Chochinov, General Manager
MILL CAPACITY:	Paper mill - 100 tons/day Roofing mill - 6.0 M bundles/8 hr shift
PRODUCTION 1984-85:	10.0 M tons
PRODUCTS:	Roofing felt
SPECIES UTILIZED:	BS - 75% PO - 20% JP - 5%
WOOD SUPPLY:	Purchased - 90% Waste paper - 10%
AVERAGE LOG HAUL WOODS TO MILL:	50 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	Paper mill - 1939 Roofing mill - 1942
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	ROOFING MILL: 35 J F M A M - - - - - N D SALES/OFFICE: 2 J F M A M - - - - - N D
TRANSPORTATION:	INPUTS: Truck PRODUCTS: Truck - 50% Rail (CPR) - 50%
MARKETS:	Midwestern USA - 85% Manitoba - 5% Saskatchewan - 5% Alberta - 5%
SPECIAL SERVICES:	Packaged

GATEWAY INDUSTRIES
(continued)

MEMBERSHIPS:	None
ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro Natural gas - Greater Winnipeg Gas
USAGE OF WOOD RESIDUES:	Complete fiber utilization, no wood residues
MILL FACILITIES/EQUIPMENT:	Paper mill 1 - Chipper 3 - Pulpers 2 - Defibrators 3 - Jordan refiners 3 - Claflen refiners 3 - Press units 1 - Calender stack 15 - Forklifts
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Market demand, plant capacity
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$15,000,000
FOREST SECTION:	Aspen Parkland

MANFOR LTD.

ADDRESS:	Box 1590 The Pas, Manitoba R9A 1L4
TELEPHONE:	623-7411
MILL LOCATION:	The Pas, Manitoba
OWNERS:	Crown Corporation of the Province of Manitoba
WOODLANDS MANAGEMENT:	Bill Jonas, Division Manager, Lumber Woodlands
MILL MANAGEMENT:	Spencer Balmer, President and Chief Executive Officer Dave Bown, Mill Manager, Pulp and Paper Div. Derek Betts, Director of Administration Frank Ellis, Human Resources Director Greg Wazny, Production Manager, Pulp and Paper Div. Marvin McKay, Technical Services Manager
MILL CAPACITY:	430 tons/day
PRODUCTION 1984-85:	118.4 M tons
PRODUCTS:	Unbleached Kraft paper - 87% Unbleached market pulp - 13%
SPECIES UTILIZED:	WS - 70% JP - 20% BS - 10%
WOOD SUPPLY:	Negotiated Agreement - 79% Purchased chips - 11% Purchased roundwood - 10%
AVERAGE LOG HAUL WOODS TO MILL:	65 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1984 - modernization
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	WOODLANDS: Contract - 144 J F M A M J J A S O N D Own - 192 J F M A M J J A S O N D PULP/PAPER MILL: 280 J F M A M J J A S O N D SALES/OFFICE: 70 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Truck - 90% Rail (CNR) - 10% PRODUCTS: Rail (CNR)

MANFOR LTD.
(continued)

MARKETS:	Eastern Canada	- 39%
	Midwestern USA	- 32%
	Western USA	- 5%
	Other USA	- 7%
	Manitoba	- 5%
	Europe	- 5%
	Other western provinces	- 4%
	Pacific rim	- 2%
	Other	- 1%
SPECIAL SERVICES:	Unit strapped and packaged	
MEMBERSHIPS:	Central Forest Products Association	
	Canadian Pulp and Paper Association	
	Pulp and Paper Research Institute of Canada	
ENERGY SUPPLY FOR MILL:	Electricity: Manitoba Hydro - 55%	
	self generated - 45%	
	Steam heat: self generated	
USAGE OF WOOD RESIDUES:	Bark - hog fuel for energy conversion	
WOODLANDS EQUIPMENT:	1 - Forano slasher	
	6 - Tanguay 1-man slashers	
	4 - Champion graders	
	14 - C-5D Tree Farmer skidders	
	3 - C-7D Tree Farmer skidders	
	11 - Clark Ranger skidders	
	8 - Komatsu tractors	
	1 - D-85A Komatsu crawler	
	2 - Pettibone Cary-lifts	
	1 - Michigan loader	
	2 - 950 Caterpillars	
	2 - Cruz-Aire Drott 40	
	1 - Trojan piler	
	1 - Drott 40 loader	
	1 - Pettibone Cary-Lift 204A	
MILL FACILITIES/EQUIPMENT:	Pulp and paper mill	
	1 - Log infeed system	
	2 - Debarking drums	
	1 - Carthage Norman 104" chipper	
	5 - Batch digestors	
	1 - Hopper Cowan knotter	
	1 - Ingersoll-Rand Hi-Q knotter	
	4 - Brown stock washers	

MANFOR LTD.
(continued)

MILL FACILITIES/EQUIPMENT: (continued)	6 - Beloit Jones DD-3000 low consistency refiners 3 - Thune presses 1 - Ingersoll-Rand high consistency refiner 1 - Clark Biccaro deculator system 1 - Centre screen system - 3 stage 4 - Hymac pressure screens 1 - Broke filtering system 1 - Fourdrinier forming machine, 7.2 m 1 - Sulzer Escher Wyss draw press section 1 - Flakt dryer system 4 - Dominion dryer drum sections 1 - Lambs-Gray Harbor roll finishing system 1 - Recovery boiler 2 - Foster-Wheeler combination oil- and wood-fired boilers 2 - English Electric turbo generators 1 - Water treatment plant 1 - Effluent treatment plant
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Market fluctuations, logging inaccessibility, and long hauling distance
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE AND EQUIPMENT:	$300,000,000
FOREST SECTION:	Saskatchewan River

WELCLAD INDUSTRIES CANADA LTD.

ADDRESS:	515 Munroe Avenue Winnipeg, Manitoba R2K 1H7
TELEPHONE:	667-5060
MILL LOCATION:	Winnipeg, Manitoba
OWNERS:	Welclad Industries Canada Ltd.
WOODLANDS MANAGEMENT:	Abe Schmidt
MILL MANAGEMENT:	Eugene Cherwick, General Manager Abe Schmidt, Plant Manager Peter Weir, Accountant
MILL CAPACITY:	37 M ft^2 (1/2" basis)/8 hr shift
PRODUCTION 1984-85:	21.7 MM ft^2 (1/2" basis)
PRODUCTS:	Exterior sheathing - 54% Roof insulation - 29% Sound panels - 15% Cant strip - 2%
SPECIES UTILIZED:	Po
WOOD SUPPLY:	Timber sales - 60% Waste paper - 20% Quota - 10% Purchased - 10%
AVERAGE LOG HAUL WOODS TO MILL:	50 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1952
AVERAGE EMPLOYMENT MONTHS OF OPERATION:	WOODLANDS: Contract - 12 J F M - M J J A S O N D FIBERBOARD MILL: 27 J F M A M J J A S O N D SALES/OFFICE: 4 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Truck PRODUCTS: Truck
MARKETS:	Midwestern USA - 80% British Columbia - 12% Manitoba - 5% Saskatchewan - 3%

WELCLAD INDUSTRIES CANADA LTD.
(continued)

SPECIAL SERVICES:	Packaged and banded, asphalt roof insulation
TRADEMARK:	Buffalo Board
MEMBERSHIPS:	Central Forest Products Association Canadian Federation of Independent Businesses
ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro Natural gas - Greater Winnipeg Gas
USAGE OF WOOD RESIDUES:	Complete fiber utilization, no wood residues
WOODLANDS EQUIPMENT:	1 - C4 Tree Farmer skidder 1 - C5 Tree Farmer skidder 8 - Flatbed trailers 1 - Truck-mounted Barko cherry picker 1 - Truck-mounted Husky cherry picker 1 - Mack highway tractor 1 - Case loader with wood grapple
MILL FACILITIES/EQUIPMENT:	Fiberboard mill 1 - Chipper 4 - Bauer refiners 1 - Hydro pulper 1 - Fourdrinier forming machine 1 - Dryer unit 1 - Trim saw section 1 - Laminating machine 5 - Forklifts
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Market fluctuations, energy costs
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$7,000,000
FOREST SECTION:	Aspen Parkland

MISCELLANEOUS WOOD-USING INDUSTRIES

Building Timber, Post and Pole, and Hog Fuel Plants

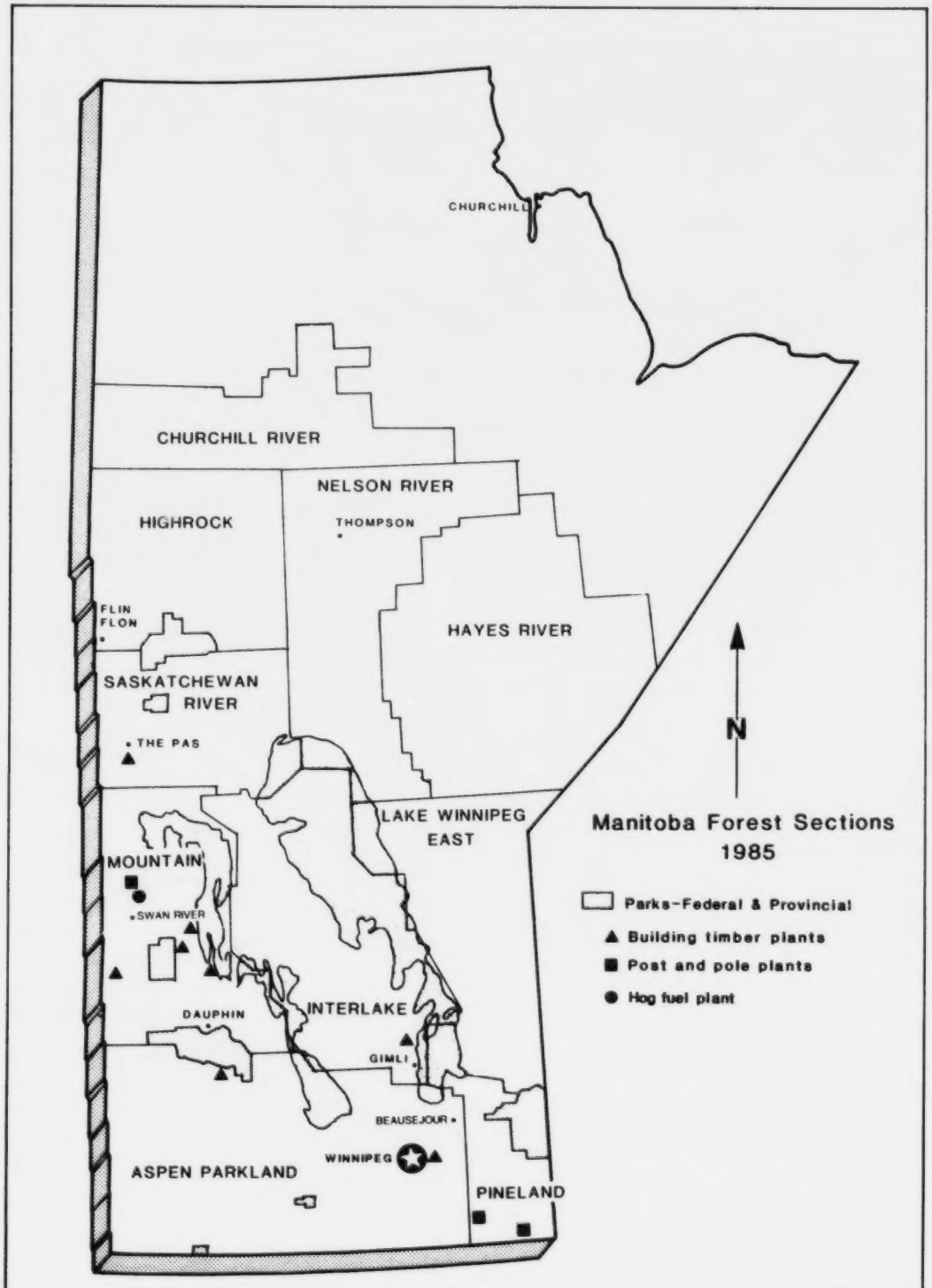

Figure 8. Location of miscellaneous wood-using industries.

BUILDING TIMBER PLANTS

Name	Address and Telephone	Production 1984-85 (M fbm)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
CAMPERVILLE DEVELOPMENT CORPORATION (Mountain Forest Section)	Box 88 Camperville, Man. R0L 0J0 524-2726	80	Purchased PO	Manual log hewing equipment	35	5.0	Prefabricated log homes (8) Services Builds log homes to customers' specifications	Manitoba
COLONIAL LOG MILLS LTD. (Interlake Forest Section)	Box 326 Riverton, Man. R0C 2R0 378-2970	100	Purchased WS	Log lathe Cut-off saw and saddler	60	3.0	Prefabricated log homes (9) Services Designs, builds and erects log homes to customers' specifications	Manitoba - 56% Midwestern USA - 33% Alberta - 11% Trade Name TRUNOR Homes Member of CFPA
HART OF WOOD (Aspen Parkland Forest Section)	59 Riverside Drive Winnipeg, Man. R3T 0G4 452-9404	20	Purchased Western red cedar (Used Hydro poles)	Portable sawmill 42" circular headsaw Notch machine	N/A	1.3	Prefabricated log homes (2) Cedar lumber Designs, builds and erects log homes to customers' specifications	Manitoba - 75% Ontario - 25%
LAURIER LOG BUILDERS (Aspen Parkland Forest Section)	Box 87 Onanole, Man. R0J 1N0 848-7695	40	Purchased-60% Timber permit -40% WS - 50% JP - 50%	Manual log hewing equipment	95	9.0	Prefabricated log homes (3) Services Designs, builds and erects log homes to customers' specifications	Manitoba

Name	Address and Telephone	Production 1984-85 (M fbm)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
MOUNTAIN LOG BUILDERS LTD. (Mountain Forest Section)	San Clara, Man. R0L 1T0 935-2383	25	Timber permit WS	Log lathe	15	7.0	Prefabricated log homes (4) Services Designs, builds and erects log homes to customers' specifications	Manitoba - 75% Ontario - 25%
NORDEVCO ASSOCIATES LTD. (Mountain Forest Section)	Box 60 Winnipegosis, Man. R0L 2G0 656-4831	60	Purchased PO	Manual log hewing equipment	100	2.0	Prefabricated log homes (6) Squared timbers Services Designs and builds log homes to customers' specifications	Manitoba - 50% Ontario - 50%
ORIGINAL LOG CABINS LTD. (Mountain Forest Section)	Box 239 Pine River, Man. R0L 1M0 263-5209	187	Purchased PO - 94% JP - 6%	Stationary sawmill 52" circular saw Cut-off saw Edger Modified planer	40	7.2	Prefabricated log homes (17) Services Designs, builds and erects log homes to customers' specifications	Manitoba - 30% Saskatchewan - 25% Ontario - 25% Local - 20% Trade Name Original Log Cabins Member of Ontario Log Builders Association CFPA
TUKKI LOG HOMES (Saskatchewan River Forest Section)	Box 2790 The Pas, Man. R9A 1R1 624-5621	240 18.2 M cords sawlogs 9.8 M cords pulpwood 3.6 M BDU chips	Purchased - 62% Quota - 38% PO - 99% WS - 1%	Log lathe notch machine Trimmers Chipper	10	20.8	Prefabricated log homes (15) Services Designs, builds and erects log homes to customers' specifications	Local - 75% Manitoba - 25% Trade Name Tukki Log Homes Member of CFPA

POST AND POLE PLANTS

Name	Address and Telephone	Production 1984-85 ($M ft^3$)	Wood Supply	Facilities	Av. Log haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
BEL-LOG INDUSTRIES LTD. (Mountain Forest Section)	Box 1000 Birch River, Man. R0L 0E0 236-4454	200 2.0 M cords sawlogs 450 cords pulpwood	Quota JP	Post peeler	15	7.5	Untreated fence posts 200 M posts	Manitoba
EMES BROTHERS LTD. (Pineland Forest Section)	Box 30 Sprague, Man. R0A 1Z0 437-2374	17 87 M fbm lumber 3.1 M cords sawlogs 900 cords pulpwood	Quota -95% Purchased- 5% PO - 70% WS - 20% EC - 5% JP - 5%	Portable sawmill 48" circular headsaw	0.5	11.0	Untreated stock: Fence posts - 13.6 M pieces - 80% Poles - 1.7 M pieces - 20% Lumber: Timber 6 x 12 - 35% Ties - 65%	Manitoba - 90% E. Canada - 10% <u>Member of</u> CFPA SEQHA
PROCIW, Morris (Pineland Forest Section)	Sandilands, Man. R0A 1W0 429-2167	5 1.6 M cords sawlogs	Quota and Timber Sales - 90% Private - 10%	None	10	1.0	Untreated fence posts 5 M posts	Manitoba <u>Member of</u> SEQHA

HOG FUEL PLANT

Name	Address and Telephone	Production 1984-85 (units)*	Wood Supply	Facilities	Average haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
CANADIAN FIBRE-FUEL INC. (Mountain Forest Section)	Box 1500 Birch River, Man. R0L 0E0 236-4454	3.1 M	Quota	Portable chipper	120	1.5	Hog fuel Services Whole tree chipping	Manitoba

*1 unit of hog fuel = 200 ft^3 and is defined equivalent to 72 ft^3 of solid wood (Nielson et al., 1985)

ACKNOWLEDGEMENTS

This directory could not have been completed without the cooperation and consideration of the management personnel and the owners of the forest industry in Manitoba. Their contribution is gratefully acknowledged.

Appreciation is also extended to the headquarters staff, field foresters and conservation officers of the Manitoba Natural Resources for their invaluable assistance.

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APPENDIX I

Senior headquarters personnel of the Manitoba Natural Resources, in Winnipeg (January 1, 1986)

Forestry Branch

Director - C.D. Rannard
(204) 945-7998

Silviculture Section
Chief - L. Yarn
(204) 945-7994

Forest Inventory Section
Chief - R.H. Lamont
(204) 945-7950

Forest Protection and Dutch Elm Disease Section
Chief - G. Munro
(204) 945-7867

Timber Management and Development Section
Chief - B. Seppala
(204) 945-7946

Fire Management & Communications

Chief - A. Briggs
(204) 945-7781

Economics & Program Review

L.A. Gravelines
(204) 945-3551

Senior regional personnel of the Forestry Branch, Manitoba Natural Resources (January 1, 1986)*

Region	Name and Telephone	Address
Southeastern and Whiteshell	K. Vogel Regional Specialist (204) 945-7261	Box 12, Bldg. 3 139 Tuxedo Boulevard Winnipeg, Manitoba R3N 0H6
Eastern	W. Rugg Regional Specialist (204) 268-1411 Ext. 222	Box 50 20 First Street South Beausejour, Manitoba R0E 0C0
Western and Southwestern	G. McColm Regional Specialist (204) 638-9111	Box 10 27 - 2nd Avenue, S.W. Dauphin, Manitoba, R7N 3E5
Interlake	S. Kaczanowski Regional Specialist (204) 642-8729	Box 1800 Gimli, Manitoba R0C 0B0
Northwest and Northeast	D. Lamb Regional Specialist (204) 623-6411	Box 2550 The Pas, Manitoba R9A 1M4

*Note that the field administrative regions listed here are not identical to the Forest Sections used in this publication.

APPENDIX II

WOOD INDUSTRY ASSOCIATIONS

American Wood Preservers' Association (AWPA)
P.O. Box 849
Stevensville, Maryland 21666

Telephone: (301) 643-4163

Canadian Federation of Independent Businesses
15 Coldwater Road
Don Mills, Ontario
M3B 3J1

Telephone: (416) 445-9214

Canadian Forestry Association
185 Somerset Street W., Suite 203
Ottawa, Ontario
K2P 0J2

Telephone: (613) 232-1815

Canadian Institute of Forestry
Room 815
151 Slater Street
Ottawa, Ontario
K1P 5H3

Telephone: (613) 234-2242

Canadian Institute of Treated Wood
75 Albert Street, Suite 506
Ottawa, Ontario
K1P 5E7

Telephone: (613) 234-9456

Canadian Lumbermen's Association
27 Goulburn Avenue
Ottawa, Ontario
K1N 8C7

Telephone: (613) 233-6205

Canadian Manufacturers Association
One Younge Street, Suite 1400
Toronto, Ontario
M5E 1J9

Telephone: (416) 363-7261

Canadian Pulp and Paper Association
Sun Life Building
1155 Metcalfe Street, Suite 2300
Montreal, Quebec
H3B 2X9

Telephone: (514) 866-6621

Canadian Standards Association (CSA)
178 Rexdale Boulevard
Rexdale, Ontario
M9W 1R3

Telephone: (416) 744-4000

Canadian Wood Council
85 Albert Street
Ottawa, Ontario
K1P 6A4

Telephone: (613) 235-7221

Canadian Wood Pallet and Container Association
P.O. Box 640
Pickering, Ontario
L1V 3T3

Telephone: (416) 831-3477

Central Forest Products Association, Inc. (CFPA)
Box 1169
Hudson Bay, Saskatchewan
S0E 0Y0

Telephone: (306) 865-2595

Forest Engineering Research Institute of Canada
143 Place Frontenac
Pointe Claire, Quebec
H9R 4Z7

Telephone: (514) 694-1140

Forintek Canada Corp.
Western Region
6620 N.W. Marine Drive
Vancouver, B.C.
V6T 1X2

Telephone: (604) 224-3221

Laminated Timber Institute of Canada
c/o Western Archrib Structures
Box 5648
Edmonton, Alberta
T6C 4G1

Telephone: (403) 465-9771

National Hardwood Association
Box 34518
Memphis, Tennessee 38134
USA

Telephone: (901) 377-1818

Ontario Log Builders Association
Box 774
Minden, Ontario
K0M 2K0

Telephone: (705) 286-3305

Pulp and Paper Research Institute of Canada
570 St. John's Boulevard
Pointe Claire, Quebec
H9R 3J9

Telephone: (514) 697-4110

South-east Quota Holders Association
Box 60
Sprague, Manitoba
R0A 1Z0

Telephone: (204) 437-2080

The Waferboard Association
75 The Donway West, Suite 400
Don Mills, Ontario
M3C 2E9

Telephone: (416) 445-3263

Western Plywood Manufacturers' Association
P.O. Box 4370
4828 89th Street
Edmonton, Alberta
T6E 1N9

Telephone: (403) 468-3311

APPENDIX III

MANITOBA'S TIMBER ALLOCATION SYSTEM

The province of Manitoba has three basic methods for allocating timber to the private sector:

1. Negotiated agreements are in force with only the very largest forest industry companies.

2. Timber sales are the principal means of allocating timber to the forest industry for periods longer than 1 year.
   There are three types:

   a) Quotas
   b) Auction sales
   c) Special allocations

3. Timber permits are the principal means of allocating timber to relatively small operators and are in effect for 1 year only.
   There are four types:

   a) Quotas - commercial
   b) Non-quota - commercial
   c) Own Use
   d) Salvage

APPENDIX IV

MANITOBA FORESTRY FACTORS FOR METRIC CONVERSION

These conversion factors are being used by the Manitoba Forestry Branch for official standard timber conversion and depletion factors.

General

Imperial Metric	Metric Imperial
1 in = 2.54 cm	1 cm = 0.394 in
1 ft = 0.305 m	1 m = 3.281 ft
1 mile = 1.609 km	1 km = 0.621 miles
1 acre = 0.405 ha	1 ha = 2.471 acres
1 square mile = 2.590 km^2	1 km^2 = 0.386 square miles
1 ft^3 = 0.0283 m^3	1 m^3 = 35.3147 ft^3
1 lb = 0.4536 kg	1 kg = 2.2046 lb
1 ton = 0.907 t	1 t = 1.1023 tons

Selected Conversion Factors For Forest Products

Product	Imperial Measure Content	Metric Content
Pulpwood & Fuelwood	1 cord	2.5 m^3 (approximate) 3.774 m^3 (stacked)
Lumber	1000 fbm	5.66 m^3 8.55 m^3 (stacked)
Hydro Poles	19 ft^3 per pole	0.54 m^3 per pole
Railway Ties	5 ft^3 per tie	0.14 m^3 per tie
Fence Posts to 9 ft.	1.0 ft^3 per post	0.03 m^3 per post
Fence Posts to 19 ft.	1.5 ft^3 per post	0.04 m^3 per post
Fence Rails (not exceeding 5 inches in diameter at butt end x 16 ft long)	10 ft^3 per 100 lineal ft	0.04 m^3 per rail
Round Timber		
5 in butt end	10 ft^3 per 100 lineal ft	0.28 m^3 per 30.5 lineal m
7 in butt end	15 ft^3 per 100 lineal ft	0.42 m^3 per 30.5 lineal m
9 in butt end	30 ft^3 per 100 lineal ft	0.85 m^3 per 30.5 lineal m
12 in butt end	60 ft^3 per 100 lineal ft	1.70 m^3 per 30.5 lineal m
12+ in butt end	100 ft^3 per 100 lineal ft	2.83 m^3 per 30.5 lineal m

Other Forestry Conversions

The conversion factors shown below are approximate values and may vary in other locals. These conversions are generally used in Manitoba.

1 bone dry unit (BDU) 2400 lb (wood chips)	= 1090 kg
1 unit (hog fuel)	= 200 ft^3 or 72 ft^3 of solid wood
1 ft^2 of sheet product (1/2" basis)	= 1.180 m^2 (1 mm basis)
1 cunit (100 ft^3)	= 2.83 m^3 roundwood
2 cunits of roundwood	= 1000 fbm
1 ft^3 of roundwood	= 5 fbm

REVISIONS TO

DIRECTORY OF PRIMARY WOOD-USING

INDUSTRIES IN MANITOBA - 1985

PAGES 100, 101 AND 132 HAVE BEEN REVISED AS ATTACHED

NOTE: THESE REVISIONS ARE NOT ENCORPORATED INTO THE SUMMARY TABLES ON PAGES iii, iv.

PERIMETER LUMBER CO.

ADDRESS:	c/o Finmac Lumber Ltd. Box 105 Winnipeg, Manitoba R3C 2G1
TELEPHONE:	786-7694 261-4646 (mill)
MILL LOCATION:	Oak Bluff, Manitoba
OWNERS:	Finmac Lumber Ltd.
MILL CAPACITY:	Planer - 15 M fbm/8 hr shift Grading Chains - 35 M fbm/8 hr shift
PRODUCTION 1984-85:	6 MM fbm
PRODUCTS:	Furniture stock 1 inch - 60% 2 inch - 40%
PRODUCTS BY GRADE:	National Hardwood Lumber Grade #1 and Better - 40% Lower grades - 60%
SPECIES UTILIZED:	Oak - 30% E - 20% AS - 20% Eastern White Pine - 30%
WOOD SUPPLY:	Purchased lumber Imported - 90% Manitoba - 10%
AVERAGE LUMBER HAUL WOODS TO MILL:	300 miles
YEAR MILL WAS CONSTRUCTED OR REBUILT:	1980
AVERAGE EMPLOYMENT MONTHS OF OPERATIONS:	PLANING MILL: 14 J F M A M J J A S O N D DRY KILNS: 6 J F M A M J J A S O N D
TRANSPORTATION:	INPUTS: Truck PRODUCTS: Truck - 95% Rail (CNR)/ship - 5%

PERIMETER LUMBER CO.
(continued)

MARKETS:	Ontario - 25% Manitoba - 25% Alberta - 20% Saskatchewan - 10% Midwestern USA - 10% Europe - 5% Pacific Rim - 5%
SPECIAL SERVICES:	Resawing and planing to customer's specifications Export Package and Tallying
MEMBERSHIPS:	Canadian Lumbermen's Association National Hardwood Lumbermen Association Manitoba Forestry Association
ENERGY SUPPLY FOR MILL:	Electricity - Manitoba Hydro Kilns - Manitoba Hydro
USAGE OF WOOD RESIDUES:	Edging and trim - firewood
MILL FACILITIES/EQUIPMENT:	Stationary planing mill 1 - Robinson band resaw 1 - Abrasive planer 1 - Planer 2 - Trim saw assemblies 1 - Dehumidifier kiln - 250 M fbm/charge 3 - fork lifts
LIMITING FACTORS FOR OPERATION AND EXPANSION:	Market fluctuations
ESTIMATED REPLACEMENT COST OF BUILDINGS, FIXED AND MOBILE EQUIPMENT:	$800,000
FOREST SECTION:	Aspen Parkland

Name	Address and Telephone	Production 1984-85 (units)*	Wood Supply	Facilities	Average haul woods to mill (miles)	Employment (person/ years)	Products and services	Markets and Membership
CANADIAN FIBRE-FUEL INC. (Mountain Forest Section)	Box 1500 Birch River, Man. R0L 0E0 236-4454	3.1 M	Quota Timber Sale Permits	1-Mor Mark portable chipper(Chiparvester) 4-chip trailors 1-Mor-bel Mark IV 1-feller buncher 1-Timber Jack skidder 1-International crawler Service equipment	120	1.5	Hog fuel Services Whole tree chipping and supplier of clean roundwood chips	Manitoba Saskatchewan

*1 unit of hog fuel = 200 ft^3 and is defined equivalent to 72 ft^3 of solid wood (Nielson et al., 1985)